ANGLOGOLD ASHANTI LTD

Form 6-K

April 10, 2014

UNITED STATES

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 April 03, 2014

Commission File Number 1-14846

AngloGold Ashanti Limited

(Name of registrant)

76 Jeppe Street

Newtown, 2001

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

South Africa

(Address of principal executive offices)

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

Form 20-F X Form 40-F

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

Yes

No X

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

Yes

No X

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

Yes No X

Enclosure: ANGLOGOLD ASHANTI MINERAL RESOURCE AND ORE RESERVE

STATEMENT FOR THE YEAR ENDED DECEMBER 31, 2013

MINERAL RESOURCE AND ORE RESERVE REPORT 2013 **ANNUAL**

INTEGRATED

REPORT

2013

MINERAL

RESOURCE AND

ORE RESERVE

REPORT

2013

NOTICE OF ANNUAL

GENERAL MEETING

AND SUMMARISED

FINANCIAL

INFORMATION

2013

FOR THE YEAR ENDED 31 DECEMBER

ANNUAL

INTEGRATED

REPORT

•

CEO's review

•

Financial and operating performance and outlook

•

Leadership and governance

•

Understanding and

mitigating risks

MINERAL RESOURCE

AND ORE RESERVE

REPORT

•

Measured, Indicated and

Inferred Mineral Resource*

•

Proved and Probable

Ore Reserve*

*

By group, region, country

and operation

NOTICE OF ANNUAL

GENERAL MEETING

AND SUMMARISED

FINANCIAL INFORMATION

•

Notice of annual

general meeting -

timing and resolutions

to be voted on

•

Summarised financial information

ANNUAL SUSTAINABILITY REPORT 2013 ANNUAL SUSTAINABILITY REPORT

•

Letter from CEO

•

Material sustainability issues

•

Approach to risk

•

Sustainability performance

•

Panel feedback

ANNUAL

FINANCIAL

STATEMENTS

2013

ANNUAL

FINANCIAL

STATEMENTS

•

Corporate governance

•

Directors' report

•

Remuneration report

Financial statements – group and company

Forward-looking statements

Certain statements contained in this document, other than statements of historical fact, including, without limitation, those concerning the economic outlook for the gold mining industry, expectations regarding gold prices, production, cash costs, cost savings and other operating results, return on equity, productivity improvements, growth prospects and outlook of AngloGold Ashanti's operations, individually or in the aggregate, including the achievement of project milestones, commencement and completion of commercial operations of certain of AngloGold Ashanti's exploration and production projects and the completion of acquisitions and dispositions, AngloGold Ashanti's liquidity and capital resources and capital expenditures and the outcome and consequence of any potential or pending litigation or regulatory proceedings or environmental, health and safety issues, are

forward-looking statements regarding AngloGold Ashanti's operations, economic performance and financial condition. These forward-looking statements or forecasts involve known and unknown risks, uncertainties and other factors that may cause AngloGold Ashanti's actual results, performance or achievements to differ materially from the anticipated results, performance or achievements expressed or implied in these forward-looking statements. Although AngloGold Ashanti believes that the expectations reflected in such forward-looking statements and forecasts are reasonable, no assurance can be given that such expectations will prove to have been correct. Accordingly, results could differ materially from those set out in the forward-looking statements as a result of, among other factors, changes in economic, social and political and market conditions, the success of business and operating initiatives, changes in the regulatory environment and other government actions, including environmental approvals and requirements, fluctuations in gold prices and exchange rates, the outcome of pending or future litigation proceedings, and business and operational risk management.

For a discussion of such risk factors, refer to the prospectus supplement to AngloGold Ashanti's prospectus dated 17 July 2012 that was filed with the United States SEC on 26 July 2013 and to our annual reports on Form 20-F and any prospectus supplement filed with the United States SEC subsequent to the date of this report. These factors are not necessarily all of the important factors that could cause AngloGold Ashanti's actual results to differ materially from those expressed in any forward-looking statements. Other unknown or unpredictable factors could also have material adverse effects on future results. Consequently, readers are cautioned not to place undue reliance on forward-looking statements. AngloGold Ashanti undertakes no obligation to update publicly or release any revisions to these forward-looking statements to reflect events or circumstances after the date of this Integrated Report or to reflect the occurrence of unanticipated events, except to the extent required by applicable law. All subsequent written or oral forward-looking statements attributable to AngloGold Ashanti or any person acting on its behalf are qualified by the cautionary statements herein. This communication may contain certain "Non-GAAP" financial measures. AngloGold Ashanti utilises certain Non-GAAP performance measures and ratios in managing its business. Non-GAAP financial measures should be viewed in addition to, and not as an alternative for, the reported operating results or cash flow from operations or any other measures of performance prepared in accordance with IFRS. In addition, the presentation of these measures may not be comparable to similarly titled measures other companies may use. AngloGold Ashanti posts information that is important to investors on the main page of its website at www.anglogoldashanti.com and under the "Investors & media" tab on the main page. This information is updated regularly. Investors should visit this website to obtain important information about AngloGold Ashanti.

Our primary platform for reporting is our online report at www.aga-reports.com MINERAL RESOURCE AND ORE RESERVE REPORT 2013

ABOUT THIS REPORT

The Mineral Resource is inclusive of the Ore Reserve component unless otherwise stated. Note also that all Mineral Resources and

Ore Reserves listed in this document are attributable unless otherwise stated.

Information is presented either by operating region, country, mine or project. The following tables and graphs are used to illustrate

developments across AngloGold Ashanti's operations during 2013:

Inclusive Mineral Resource and Ore Reserve comparison by region, country, mine and project; development sampling results; details

of average drill-hole spacing and type; Exclusive Mineral Resource; Mineral Resource below infrastructure; Inclusive Mineral Resource

and Ore Reserve by-products; year-on-year reconciliation of the Mineral Resource and Ore Reserve; Inferred Mineral Resource in

business plan; Ore Reserve modifying factors; grade tonnage information on the Mineral Resource and lists of appointed Competent

Persons. Topics for brief discussion include regional overview; country overview; Mineral Resource estimation; Ore Reserve estimation;

location; geology; exploration and projects.

Note: Rounding of figures in this document may result in minor computational discrepancies. Throughout this report, the metric system of measurement

is used and dollar or \$ represents US dollar unless otherwise stated. All grade tonnage graphs in this document are for Mineral Resources.

GUIDE TO REPORTING

AngloGold Ashanti Limited (AngloGold Ashanti) publishes a suite of reports to record its overall performance annually. The Annual

Integrated Report for the 2013 financial year should be read in conjunction with our Notice of Meeting and Summarised Financial

Information 2013, which has been posted to shareholders, our Annual Sustainability Report 2013 and our Annual Financial

Statements 2013.

Other reports available for the financial year are this Mineral Resource and Ore Reserve Report 2013, operational profiles and country fact

sheets. These reports are all available on our annual report portal at www.aga-reports.com.

For ease of use, a detailed guide on how to use our reports may be found on the inside front cover of this report. For terminology used,

please refer to the glossary of terms on page 187.

FOR NOTING:

The following key parameters should be noted in respect of our reports:

Production is expressed on an attributable basis unless otherwise indicated.

The average workforce, including employees and contractors, is reported for AngloGold Ashanti, its subsidiaries and its joint

ventures. The joint ventures are reported on an attributable basis.

Unless otherwise stated, \$ or dollar refers to US dollars throughout this suite of reports.

Locations on maps are for indication purposes only.

Group and company are used interchangeably.

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6

'Statement of financial position' and 'balance sheet' are used interchangeably. AngloGold Ashanti's Mineral Resource and Ore Reserve are reported in accordance with the minimum standards described by the Australasian Code for Reporting of Exploration Results, Mineral Resources and Ore Reserves (the JORC Code, 2012 Edition), and also conform to the standards set out in the South African Code for the Reporting of Exploration Results, Mineral Resources and Mineral Reserves (The SAMREC Code, 2007 edition and amended July 2009).

GROUP OVERVIEW

OUR

VISION, MISSION AND VALUES

VISION

TO BE THE LEADING MINING COMPANY

To create value for our shareholders, our employees and our business and social partners through safely and responsibly exploring, mining and marketing our products. Our primary focus is gold, but we will pursue value creating opportunities in other minerals where we can leverage our existing assets, skills and experience to enhance the delivery of value.

EXPLORING

MINING

MARKETING

OUR

MISSION

MINERAL RESOURCE AND ORE RESERVE REPORT 2013

2

Safety is our first value.

We place people first and correspondingly put the highest priority on safe and healthy practices and systems of work. We are responsible for seeking out new and innovative ways to ensure that our workplaces are free of occupational injury and illness. We live each day for each other and use our collective commitment, talents, resources and systems to deliver on our most important commitment ... to care.

We treat each other with dignity and respect.

We believe that individuals who are treated with respect and who are entrusted to take responsibility respond by giving their best. We seek to preserve people's dignity, their sense of self-worth in all our interactions, respecting them for who they are and valuing the unique contribution that they can make to our business success. We are honest with ourselves and others, and we deal ethically with all of our business and social partners.

We value diversity

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We aim to be a global leader with the right people for the right jobs. We promote inclusion and team work, deriving benefit from the rich diversity of the cultures, ideas, experiences and skills that each employee brings to the business.

We are accountable for our actions and undertake to

deliver on our commitments.

We are focused on delivering results and we do what we say we will do. We accept responsibility and hold ourselves accountable for our work, our behaviour, our ethics and our actions. We aim to deliver high performance outcomes and undertake to deliver on our commitments to our colleagues, business and social partners, and our investors.

The communities and societies in which we operate will

be better off for AngloGold Ashanti having been there.

We uphold and promote fundamental human rights where we do business. We contribute to building productive, respectful and mutually beneficial partnerships in the communities in which we operate. We aim to leave host communities with a sustainable future.

We respect the environment.

We are committed to continually improving our processes in order to prevent pollution, minimise waste, increase our carbon efficiency and make efficient use of natural resources. We will develop innovative solutions to mitigate environmental and climate risks.

OUR

VALUES

3

OUR VISION, MISSION AND VALUES

CONTENTS

SECTION

ONE

P06-17

GROUP OVERVIEW

10

Mineral Resource by

country (inclusive of

Ore Reserve)

11

Mineral Resource by

country (exclusive of

Ore Reserve)

12

Ore Reserve by country

14

Reconciliation of Mineral

Resource

16

Reconciliation of Ore

Reserve

SECTION

TWO

P18-57

SOUTH AFRICA

18

South Africa

22

Great Noligwa

26

Kopanang

31

Moab Khotsong

37

Mponeng

45

TauTona

50

Surface Operations

56

Uranium

ZA

SECTION

THREE

P58-82

CONTINENTAL AFRICA

60

Democratic Republic

of the Congo

61

Kibali 65 Mongbwalu 68 Ghana 69 Iduapriem 74 Obuasi 81 Guinea 82 Siguiri CA **SECTION THREE CONT** P90-117 **CONTINENTAL AFRICA** 90 Mali 91 Morila 94 Sadiola 101 Yatela 104 Namibia 105 Navachab 109 **Tanzania** 110 Geita CA **GOLD MINING AND EXPLORATION COMPANIES** ONE OF THE WORLD'S **FOREMOST** MINERAL RESOURCE AND ORE RESERVE REPORT 2013

P184-190 **ADMINISTRATIVE INFORMATION** 185 **Definitions** 187 Glossary of terms 190 Abbreviations **IBC** Administrative Information AU **SECTION FOUR** P118-131 **AUSTRALASIA** 120 Australia 122 Sunrise Dam 126 Tropicana AM **SECTION FIVE** P132-183 **AMERICAS** 134 **Argentina** 135 Cerro Vanguardia 141 **Brazil** 143 AGA Mineração 162 Serra Grande 168 Colombia 169 Gramalote 172 La Colosa 176 **United States of America** 177 Cripple Creek & Victor (CC&V) **SECTION FOUR SECTION FIVE SECTION SIX**

SECTION SIX

SECTION THREE SECTION TWO SECTION ONE 5 GROUP OVERVIEW

GROUP OVERVIEW SECTION ONE

P06-17

Headquartered in Johannesburg, South Africa, AngloGold Ashanti has 21 operations and two advanced major exploration projects in 12 countries. Two new mines, Tropicana in Australia and Kibali in the Democratic Republic of the Congo (DRC), came on stream in late 2013.

MINERAL RESOURCE AND ORE RESERVE REPORT 2013

6

GROUP OVERVIEW Argentina Cerro Vanguardia (92.5%) Brazil Serra Grande AGA Mineração Colombia Gramalote (51%) La Colosa **United States** Cripple Creek & Victor (CC&V) Australia Sunrise Dam Tropicana (70%) Location of AngloGold Ashanti's operations and projects - 2013 Guinea Siguiri (85%) Mali Morila (40%)* Sadiola (41%) Yatela (40%) Ghana Iduapriem Obuasi **DRC** Kibali (45%)* Mongbwalu (86.2%) Tanzania Geita Namibia Navachab South Africa Vaal River operations Great Noligwa Kopanang Moab Khotsong West Wits operations Mponeng TauTona Surface Operations** 1 1 2 2 3 3 11 12 11

12 13

SOUTH AFRICA AMERICAS CONTINENTAL **AUSTRALASIA SOUTH AFRICA AFRICA Inclusive Mineral Resources – attributable** (Moz) South Africa 94.3 Continental Africa 69.1 Australasia 8.6 Americas

Ore Reserve – attributable

(Moz)

South Africa

30.9

Continental Africa

24.4

Australasia

3.8

Americas

8.8

Percentages in brackets indicate the ownership interest of AngloGold Ashanti, whether held directly or indirectly. All operations and projects are 100%-owned unless otherwise indicated.

Both Morila and Kibali are managed and operated by Randgold

Resources Limited.

** Includes Mine Waste Solutions (MWS).

SECTION FOUR

SECTION FIVE

SECTION SIX

SECTION THREE

SECTION TWO

SECTION ONE

7

GROUP OVERVIEW

THE YEAR IN REVIEW

MINERAL RESOURCE AND ORE RESERVE

The AngloGold Ashanti Mineral Resource and Ore Reserve are reported in accordance with the minimum standards described by the

Australasian Code for Reporting of Exploration Results, Mineral Resources and Ore Reserves (JORC Code, 2012 Edition), and also conform

to the standards set out in the South African Code for the Reporting of Exploration Results, Mineral Resources and Mineral Reserves (The

SAMREC Code, 2007 edition and amended July 2009). Mineral Resource is inclusive of the Ore Reserve component unless otherwise

stated. In complying with revisions to the JORC code the changes to AngloGold Ashanti's Mineral Resource and Ore Reserve have been

reviewed and it was concluded that none of the changes are material to the overall valuation of the company.

AngloGold Ashanti has

therefore resolved not to provide the detailed reporting as defined in Table 1 of the code. The company will however continue to provide the

high level of detail it has in previous years in order to comply with the transparency requirements of the code.

AngloGold Ashanti strives to actively create value by growing its major asset – the Mineral Resource and Ore Reserve. This drive is

based on an active, well-defined brownfields and greenfields exploration programmes, innovation in both geological modelling and

mine planning and continual optimisation of its asset portfolio.

GOLD PRICE

The following local prices of gold were used as a basis for estimation in the December 2013 declaration:

Local prices of gold

Gold price

South Africa

Australia

Brazil

Argentina

US\$/oz

ZAR/kg

AUD/oz

BRL/oz

ARS/oz

2013 Ore Reserve

1,100

360,252

1,249

2,551

6.186

2013 Mineral Resource

1,600

434,112

1,606

3,304

8.106

The JORC and SAMREC Codes require the use of reasonable economic assumptions. These include long-range commodity price

forecasts which are prepared in-house.

MINERAL RESOURCE

The total Mineral Resource decreased from 241.5 million ounces (Moz) in December 2012 to 233.0Moz in December 2013. A gross

annual decrease of 2.8Moz occurred before depletion, while the net decrease after allowing for depletion is 8.5Moz.

Changes in

economic assumptions from December 2012 to December 2013 resulted in a 12.9Moz decrease to the Mineral Resource, whilst

exploration and modelling resulted in an increase of 10.7Moz. Depletion from the Mineral Resource for the year totalled 5.8Moz. The

Mineral Resource has been estimated at a gold price of US\$1,600/oz (2012: US\$2,000/oz).

Inclusive Mineral Resource

Moz

Mineral Resource as at 31 December 2012

241.5

Reductions

Kopanang

Negative exploration results defined a large uneconomic area

(2.5)

Savuka

Depletions and transfers to TauTona and Mponeng

(3.0)

Obuasi

Revised domaining of Mineral Resource models

(2.4)

Geita

Gold price resulted in an increased cut-off

(1.6)

CC&V

Gold price, model grade and recovery factors

(2.1)

Other

Total of non-significant changes

(3.8)

Additions

Mponeng

Transfers from Savuka Mineral Resource

1.7

Kibali

Positive exploration results

2.0

La Colosa

Exploration growth tempered by reduced economics

1.2

Other

Total of non-significant changes

2.6

Disposals

Kibali

An Inferred Mineral Resource was transferred to SOKIMO

(0.6)

Mineral Resource as at 31 December 2013

Rounding of figures may result in computational discrepancies.
MINERAL RESOURCE AND ORE RESERVE REPORT **2013**8

ORE RESERVE

The AngloGold Ashanti Ore Reserve reduced from 74.1Moz in December 2012 to 67.9Moz in December 2013. This gross annual decrease

of 6.2Moz includes depletion of 5.0Moz. The balance of 1.2Moz reductions in Ore Reserve, results from changes in economic assumptions

between 2012 and 2013 which resulted in a reduction of 3.4Moz to the Ore Reserve, whilst exploration and modelling changes

resulted in an increase of 2.2Moz. The Ore Reserve has been calculated using a gold price of US\$1,100/oz (2012: US\$1,300/oz).

Ore Reserve

Moz

Ore Reserve as at 31 December 2012

74.1

Reductions

Savuka

Depletions and transfers to TauTona and Mponeng

(0.5)

Moab Khotsong

Model changes and depletions

(0.5)

Sadiola

Model changes, economics and depletions

(0.7)

Geita

Economic changes had a significant negative effect

(1.5)

CC&V

Lower gold price

(1.2)

Other

Total non-significant changes

(3.0)

Additions

Mponeng

Mainly due to net effect of transfer from Savuka

0.8

Other

Total non-significant changes

0.4

Ore Reserve as at 31 December 2013

67.9

Rounding of figures may result in computational discrepancies.

BY-PRODUCTS

Several by-products are recovered as a result of processing of the gold Ore Reserve. These include 57.9kt of uranium oxide from the

South African operations, 0.38Mt of sulphur from Brazil and 29.6Moz of silver from Argentina.

COMPETENT PERSONS

The information in this report relating to exploration results, Mineral Resources and Ore Reserves is based on information compiled

by or under the supervision of the Competent Persons as defined in the JORC or SAMREC Codes. All Competent Persons are

employed by AngloGold Ashanti, unless stated otherwise, and have sufficient experience relevant to the style of mineralisation and

type of deposit under consideration and to the activity which they are undertaking. The Competent Persons consent to the inclusion

of Exploration Results, Mineral Resource and Ore Reserve information in this report, in the form and context in which it appears. The

legal tenure of each operation and project has been verified to the satisfaction of the accountable Competent Person. During the past decade, the company has developed and implemented a rigorous system of internal and external reviews aimed

at providing assurance in respect of Ore Reserve and Mineral Resource estimates. The following operations were subject to an

external review in line with the policy that each operation project will be reviewed by an independent third party on average once

every three years:

•

Mineral Resource and Ore Reserve at Kopanang and Great Noligwa

•

Mineral Resource and Ore Reserve at TauTona

•

Ore Reserve at Kibali

•

Mineral Resource at Gramalote

The external reviews were conducted by the following companies AMEC (Kopanang, Great Noligwa, TauTona and Gramalote) and

Snowden (Kibali Mine). Certificate of competence documentation has been received from all companies conducting the external

reviews to state that the Mineral Resource and/or Ore Reserve comply with the JORC Code and the SAMREC Code. Numerous internal Mineral Resource and Ore Reserve process reviews were completed by suitably qualified Competent Persons from

within AngloGold Ashanti. A documented chain of responsibility exists from the Competent Persons at the operations to the company's

Mineral Resource and Ore Reserve Steering Committee. Accordingly, the Chairman of the Mineral Resource and Ore Reserve Steering

Committee, VA Chamberlain, MSc (Mining Engineering), BSc (Hons) (Geology), MGSSA, FAusIMM, assumes responsibility for the Mineral

Resource and Ore Reserve processes for AngloGold Ashanti and is satisfied that the Competent Persons have fulfilled their responsibilities.

SECTION FOUR

SECTION FIVE

SECTION SIX

SECTION THREE

SECTION TWO

SECTION ONE

9

GROUP OVERVIEW

MINERAL RESOURCE BY COUNTRY Inclusive of Ore Reserve (Attributable) **Tonnes** Grade **Contained** gold as at 31 December 2013 Category million g/t **Tonnes** Moz South Africa Measured 164.79 2.48 409.37 13.16 Indicated 949.84 2.07 1,968.70 63.30 Inferred 51.36 10.78 553.96 17.81 Total 1,165.99 2.51 2,932.03 94.27 Democratic Republic of the Congo Measured 2.47 2.50 6.17 0.20 Indicated 71.63 3.78 270.43 8.69

Inferred 31.56 3.54 111.76 3.59 Total 105.65

3.68

388.36

12.49

Ghana

Measured

44.70

4.67

208.68

6.71

Indicated

115.10

3.85

443.68

14.26

Inferred

139.22

2.85

396.84

12.76

Total

299.02

3.51

1,049.21

33.73

Guinea

Measured

33.95

0.62

21.15

0.68

Indicated

96.07

0.76

73.04

2.35

Inferred

61.17

0.97

59.06

1.90

Total

191.19

0.80

153.25

4.93

Mali

Measured

7.19

0.82

5.91

Indicated 39.30 2.03 79.88 2.57 Inferred 20.34 0.89 18.04 0.58 Total 66.83 1.55 103.83 3.34 Namibia Measured 22.10 0.65 14.39 0.46 Indicated 75.04 1.31 98.57 3.17 Inferred 6.83 1.26 8.61 0.28 Total 103.96 1.17 121.57 3.91 Tanzania Measured Indicated 78.48 2.96 232.31 7.47 Inferred 31.38 3.17

3.19

Total

109.87

3.02

331.66

10.66

Australia

Measured

35.57

1.65

58.87

1.89

Indicated

70.92

2.10

148.71

4.78

Inferred

20.05

3.04

60.92

1.96

Total

126.54

2.12

268.51

8.63

Argentina

Measured

12.97

1.42

18.44

0.59

Indicated

30.23

3.15

95.07

3.06

Inferred

5.66

2.64

14.93

0.48

Total

48.86

2.63

128.44

4.13

Brazil

Measured

5.42

91.38

2.94

Indicated

21.37

5.13

109.70

3.53

Inferred

49.90

5.29

263.85

8.48

Total

88.13

5.28

464.93

14.95

Colombia

Measured

14.80

0.79

11.62

0.37

Indicated

52.90

0.59

31.07

1.00

Inferred

1,161.73

0.80

925.92

29.77

Total

1,229.43

0.79

968.61

31.14

United States

Measured

249.25

0.76

188.67

6.07

Indicated

173.17

0.66

114.06

3.67

Inferred

51.24

0.67

34.50

1.11

Total

473.66

0.71

337.24

10.84

Total

Measured

604.64

1.71

1,034.66

33.27

Indicated

1,774.04

2.07

3,665.23

117.84

Inferred

1,630.45

1.56

2,547.74

81.91

Total

4,009.13

1.81

7,247.63

233.02

Rounding of figures may result in computational discrepancies.

MINERAL RESOURCE AND ORE RESERVE REPORT 2013

10

MINERAL RESOURCE BY COUNTRY

Exclusive of Ore Reserve (Attributable)

Tonnes

Grade

Contained gold

as at 31 December 2013

Category

million

g/t

Tonnes

Moz

South Africa

Measured

15.33

18.11

277.65

8.93

Indicated

230.62

3.71

856.27

27.53

Inferred

17.00

18.74

318.52

10.24

Total

262.95

5.52

1,452.43

46.70

Democratic Republic of the Congo

Measured

0.09

1.63

0.14

0.00

Indicated

32.31

3.35

108.15

3.48

Inferred

30.62

3.59

109.83

3.53

Total

63.02

218.13 7.01 Ghana Measured 9.67 7.88 76.17 2.45 Indicated 56.22 3.54 199.27 6.41 Inferred 139.22 2.85 396.84 12.76 Total 205.10 3.28 672.28 21.61 Guinea Measured 0.41 0.61 0.25 0.01 Indicated 43.36 0.80 34.85 1.12 Inferred 61.17 0.97 59.06 1.90 Total 104.94 0.90 94.15 3.03 Mali Measured 5.43 0.73

> 3.96 0.13 Indicated

23.21 1.74 40.37 1.30 Inferred 20.34 0.89 18.04 0.58 Total 48.98 1.27 62.36 2.00 Namibia Measured 7.29 0.52 3.80 0.12 Indicated 40.72 1.15 46.72 1.50 Inferred 6.83 1.26 8.61 0.28 Total 54.84 1.08 59.13 1.90 Tanzania Measured Indicated 48.23 2.43 117.00 3.76 Inferred 31.38

3.1799.353.19

Total

79.61

2.72

216.35

6.96

Australia

Measured

3.21

0.87

2.80

0.09

Indicated

43.29

1.97

85.30

2.74

Inferred

20.05

3.04

60.92

1.96

Total

66.55

2.24

149.02

4.79

Argentina Measured

3.62

2.29

8.30

0.27

Indicated

26.68

2.08

55.58

1.79

Inferred

5.66

2.64

14.93

0.48

Total

35.95

2.1978.80

2.53

Brazil

Measured

6.46

39.30

1.26

Indicated

10.94

5.02

54.88

1.76

Inferred

47.34

5.29

250.63

8.06

Total

64.74

5.33

344.81

11.09

Colombia

Measured

14.80

0.79

11.62

0.37

Indicated

52.90

0.59

31.07

1.00

Inferred

1,161.73

0.80

925.92

29.77

Total

1,229.43

0.79

968.61

31.14

United States

Measured

127.24

0.67

85.85

2.76

Indicated

112.52

0.63

70.38

2.26

Inferred

0.67 34.50 1.11 Total 291.00 0.66 190.74 6.13 Total Measured 193.55 2.63 509.83 16.39 Indicated 720.99 2.36 1,699.83 54.65 Inferred 1,592.59 1.44 2,297.16 73.86 Total 2,507.13 1.80 4,506.82 144.90 Rounding of figures may result in computational discrepancies. **SECTION FOUR SECTION FIVE**

SECTION SIX

SECTION THREE

SECTION TWO

SECTION ONE

GROUP OVERVIEW

ORE RESERVE BY COUNTRY (Attributable) **Tonnes** Grade **Contained gold** as at 31 December 2013 Category million g/t Tonnes Moz South Africa Proved 150.77 0.68 102.05 3.28 Probable 731.97 1.17 859.08 27.62 Total 882.75 1.09 961.13 30.90 Democratic Republic of the Congo Proved 2.43 2.36 5.71 0.18 Probable 37.23 4.16 154.98 4.98 Total 39.66 4.05 160.70 5.17 Ghana Proved 31.73

3.90 123.61 3.97 Probable 53.35

3.58 190.90 6.14 Total 85.08 3.70 314.52 10.11 Guinea Proved 33.72 0.62 21.03 0.68 Probable 52.51 0.69 36.26 1.17 Total 86.23 0.66 57.28 1.84 Mali Proved Probable 23.70 1.94 45.91 1.48 Total 23.70 1.94 45.91 1.48 Namibia Proved Probable 46.34 1.29

> 59.65 1.92

> > 36

Total 46.34 1.29 59.65 1.92 Tanzania Proved Probable 36.92 3.28 121.29 3.90 Total 36.92 3.28 121.29 3.90 Australia Proved 32.37 1.73 56.08 1.80 Probable 27.16 2.30 62.33 2.00 Total 59.53 1.99 118.41 3.81 Argentina Proved 10.27 1.04 10.63 0.34 Probable 7.30 5.23 38.20

> 1.23 Total 17.57 2.78

48.84

1.57

Brazil

Proved

8.40

4.13

34.71

1.12

Probable

10.30

4.29

44.18

1.42

Total

18.71

4.22

78.89

2.54

United States

Proved

122.01

0.84

102.83

3.31

Probable

60.65

0.72

43.67

1.40

Total

182.65

0.80

146.50

4.71

Total

Proved

391.70

1.17

456.65

14.68

Probable

1,087.44

1.52

1,656.45

53.26

Total

1,479.14

1.43

2,113.11

67.94

Rounding of figures may result in computational discrepancies.

MINERAL RESOURCE AND ORE RESERVE REPORT 2013
12

GROUP OVERVIEW
13
SECTION FOUR
SECTION FIVE
SECTION SIX
SECTION THREE
SECTION TWO
SECTION ONE

RECONCILIATION OF INCLUSIVE MINERAL RESOURCE: 2012 - 2013(Au content Moz) **Previous** year Sources of change as at 31 December 2013 **Depletion Gold price** Cost **Exploration** Methodology Acquisition/ disposal Other South Africa Great Noligwa 1.036 (0.128)0.777 0.054 (0.103)Kopanang 9.248 (0.280)(1.131)(1.148)0.103 Moab Khotsong 20.914 (0.295)(0.372)(0.045)Vaal River Surface 4.756 (0.162)(0.037)0.064

Mine Waste Solutions 2.584 (0.205)0.004 0.006 0.018 Mponeng 50.817 (0.459)(0.784)(0.384)1.309 2.052 Savuka 2.978 (0.052)(0.826)0.075 0.395 (2.570)TauTona 4.693 (0.298)(0.004)0.041 (0.161)0.189 West Wits Surface 1.571 (0.020)0.015 0.023 0.005 Total 98.597 (1.899)(0.784)(1.940)

0.327 (0.303)Continental Africa Kibali 8.505 (0.048)(0.171)0.364 1.871 (0.552)Mongbwalu 2.057 0.461 Iduapriem 6.619 (0.288)(0.312)0.072 0.186 0.060 Obuasi 29.825 (0.351)0.098 (2.177)Siguiri 5.171 (0.248)(0.557)(0.333)0.788 0.167 (0.061)Morila

(0.054)0.013 0.004 Sadiola 3.786 (0.087)(0.549)0.019 (0.065)(0.006)Yatela 0.089 (0.010)(0.073)Navachab 4.408 (0.103)(0.074)(0.280)0.047 0.069 (0.158)Geita 12.282 (0.620)(1.608)(0.408)0.233 0.816 (0.031)Total 73.012 (1.809)(3.345)(0.658)3.590 (0.991)(0.552)

(0.191)Australasia Sunrise Dam 2.819 (0.361)(0.103)0.113 0.469 0.265 0.024 Tropicana 5.524 (0.234)0.116 Total 8.343 (0.596)(0.103)0.113 0.469 0.382 0.024 Americas Cerro Vanguardia 4.717 (0.246)(0.607)(0.058)0.280 0.042 AGA Mineração 11.794 (0.458)(0.108)0.639 (0.059)0.150 Serra Grande 2.787 (0.182)

```
(0.005)
0.310
0.079
Gramalote
2.552
(0.113)
0.754
(0.104)
La Colosa
26.838
(4.101)
5.316
Cripple Creek & Victor
12.897
(0.577)
(0.664)
(0.570)
0.211
(0.780)
0.325
Total
61.586
(1.462)
(5.598)
(0.628)
7.510
(0.822)
0.475
Grand total
241.538
(5.766)
(9.829)
(3.112)
11.837
(1.104)
(0.552)
```

Rounding of figures may result in computational discrepancies.

MINERAL RESOURCE AND ORE RESERVE REPORT

2013

14

Current vear Net diff **Comments** 1.636 0.60 58 Change mainly due to areas of the Vaal Reef and Crystalkop Reef now being considered potentially economic, this was offset by a minor value drop, depletions and transfers. 6.792 (2.46)(27)Change mainly due to low grade areas becoming uneconomic. Grades are marginally down and expected to drop in the direction of mining with reduced tonnage due to lower stoping width planned. 20.202 (0.71)(3) Changes mainly due to new sampling data at Top and Lower Mine, depletions, stoping width change and pillars becoming uneconomic. 4.626 (0.13)(3) Changes mainly due to depletions from waste rock dump material and Sulphur Paydam. Additions were mainly tailings material. 2.406 (0.18)Changes mainly due to depletions. 52.551 1.73 Decrease in Ventersdorp Contact Reef due to estimation domain changes on Elsburgs as well as lowgrade areas becoming uneconomic, offset by transfers from Savuka and TauTona. 0 (2.98)Changes were mainly due depletions and transfers to TauTona and Mponeng as well as low-grade areas becoming uneconomic. 4.461 (0.23)(5) Decrease was mainly due to depletions and low-grade areas becoming uneconomic offset by an increase due to structure modelling changes and transfers from Savuka. 1.594 0.02 Growth due to annual tailings additions. 94.267 (4.33)(4)

9.968 1.46 17 Modelling and re-interpretation of the ore zone due to new exploration drilling information resulted in positive changes. The ground comprising of Kibali South Inferred Mineral Resource was transferred to Sokimo in settlement of the remaining obligations. 2.518 0.46 22 Increase due to new exploration Mineral Resource extension drilling information. 6.338 (0.28)(4) Increase due to Mineral Resource model extensions into the Ajopa bridge area which was offset by depletions and gold price changes. 27.395 (2.43)(8) Decrease due to updated domaining in the Mineral Resource models, updating of depletion wireframes around the historically mined-out areas and increase in cut-off grade from 1.06 to 1.6 g/t. 4.927 (0.24)(5) Decrease due to a drop in gold price, increase in cost and depletion. This was only partially offset by gains from infill drilling and updated models in P1 and P3. 0.233 (0.04)(14)Stockpiles continued to be treated during 2013. Main pit tonnages now included in 2013. 3.099 (0.69)(18)Decrease due to gold price. 0.006 (0.08)(93)Yatela Main Pit Pushback 8 is no longer economic due to reduction in gold price and geotech issues. Only stockpiles remain. 3.909 (0.50)(11)Slight model gains in Anomaly 13 and Anomaly 16 were offset by reductions due to gold price and costs. 10.663 (1.62)(13)Reduction due to lower gold price was slightly offset by positive model changes in the lower cutbacks of Nyankanga as the result of new infill exploration drill holes. 69.056 (3.96)(5)

0.41 14 Additional Mineral Resource defined from exploration drilling and lower mining costs. 5.406 (0.12)(2) Minor changes due to depletion and pit designs – no change to models. 8.633 0.29 4.129 (0.59)(12)Significant reductions due to increased costs, reduced gold price and depletion. 11.959 0.16 Depletions and the effect of economics was balanced by revised modelling and exploration information. 2.989 0.20 Increases due to exploration success. 3.088 0.54 21 The main changes were due to exploration addition, classification methodology and revisions to the estimation technique. 28.053 1.22 Exploration success. 10.842 (2.05)Reductions in: gold price, estimated grade and recovery factors in Cresson resulted in reductions which were in part compensated for by exploration success and a reduced cut-off grade. 61.061 (0.53)(1) 233.017 (8.52)(4) **SECTION FOUR SECTION FIVE SECTION SIX SECTION THREE SECTION TWO SECTION ONE** 15

GROUP OVERVIEW

RECONCILIATION OF ORE RESERVE: 2012 - 2013(Au content Moz) **Sources of change** as at 31 December 2013 **Previous** year Depletion **Model change** Changes in economics **New ounces** from project Scope change South Africa Great Noligwa 0.393 (0.068)0.163 (0.009)Kopanang 1.393 (0.203)0.182 0.082 Moab Khotsong 6.606 (0.217)(0.227)(0.073)Vaal River Surface 4.649 (0.152)(0.055)Mine Waste Solutions 2.347 (0.203)0.003

Mponeng 13.807 (0.364)(0.042)1.165 Savuka 0.544 (0.034)(0.509)TauTona 1.649 (0.195)(0.266)0.200 West Wits Surface 0.171 (0.019)0.008 0.025 Total 31.560 (1.457)(0.234)0.984 Continental Africa Kibali 4.921 (0.048)0.294 Iduapriem 2.206 (0.215)(0.048)0.028

Obuasi

8.517 (0.215)(0.158)Siguiri 2.202 (0.227)0.024 (0.157)0.037 (0.023)Morila 0.056 (0.054)0.038 Sadiola 2.138 (0.133)(0.208)(0.276)Yatela 0.032 (0.010)(0.022)Navachab 2.099 (0.094)0.062 (0.128)(0.022)Geita 5.421 (0.496)0.464 (1.998)0.506 Total 27.592

(1.493)

0.431 (2.582)0.037 0.527 Australasia Sunrise Dam 1.184 (0.371)0.037 0.314 Tropicana 2.731 (0.134)0.012 (0.007)Total 3.914 (0.505)0.049 0.308 Americas Cerro Vanguardia 2.032 (0.282)0.094 (0.329)0.055 AGA Mineração 2.330 (0.405)0.112 (0.018)0.004 (0.106)Serra Grande 0.764 (0.144)(0.005)(0.013)(0.033)0.003 Cripple Creek and Victor 5.883 (0.694)

(0.005)(0.497)0.022 Total 11.011 (1.524)0.195 (0.857)(0.028)(0.025)Grand total 74.077 (4.979)0.441 (3.438)0.008 1.794 Rounding of figures may result in computational discrepancies. MINERAL RESOURCE AND ORE RESERVE REPORT 2013

16

```
Acquisition/
disposal
Other
Current
year
Net diff
%
Comments
0.478
0.09
22
Selected Crystalkop reef areas included in the Ore Reserve.
1.455
0.06
4
Increase due to the grade cut-off being reduced based as the result of
higher planned volumes.
0.033
6.122
(0.48)
(7)
Decrease due to structural modelling changes in Top and Middle mine,
and reduction in grade in Lower mine.
0.019
4.460
(0.19)
(4)
Decrease mainly as a result of depletions.
(0.003)
2.248
(0.10)
Decrease due to depletions.
14.567
0.76
Ore Reserve increased due to the transfer of Savuka Ore Reserve to
Mponeng and mine design changes.
0
(0.54)
```

```
Ore Reserve transferred to TauTona and Mponeng (majority to Mponeng).
1.388
(0.26)
(16)
Decrease due to structural interpretation changes and depletions.
(0.001)
0.184
0.01
Slight increase due to re-instatement of Savuka R11 waste rock dump.
0.047
30.901
(0.66)
(2)
5.166
0.25
Converted Inferred Mineral Resource to Indicated Mineral Resource via
grade control drilling thereby increasing the Probable Ore Reserve.
1.971
(0.24)
Impact of decreased gold price and depletion.
(0.003)
8.141
(0.38)
Impact of decreased gold price and depletion.
(0.012)
1.842
(0.36)
(16)
Impact of decreased gold price, total costs increased and depletion
reduced Ore Reserve. This was partially offset by Inferred Mineral
Resource conversion.
0.004
0.044
(0.01)
(22)
```

Stockpile depletion and addition of mining cutback. (0.089)1.432 (0.71)(33)Reduction due to model changes, gold price change, depletions and write down of stockpile material. 0.001 0 (0.03)No Ore Reserve being reported. Mining operations have ceased. 1.918 (0.18)(9)Impact of decreased gold price and depletion. 0.002 3.899 (1.52)(28)Impact of decreased gold price and depletion, negative impact from model changes and higher contract costs. Scope changes, include Ore Reserve additions from Nyankanga Cut 11. (0.097)24.413 (3.18)(12)0.013 1.177 (0.01)(1) Additional ore tonnages added by lower mining costs, achieved by replacing bulk development sampling with RC grade control drilling. 0.028 2.630 (0.10)Minor changes due to depletion and pit designs. 0.041 3.807 (0.11)(3)

1.570 (0.46)(23)Significant reductions due to increased costs, reduced gold price and depletion. 0.052 1.971 (0.36)(15)Changes due to revised planning factors and changes to mining styles. (0.006)0.566 (0.20)(26)The main impacts in the Ore Reserve were due to economics parameters and needed to remove an open pit due to geotechnical revaluation. 4.710 (1.17)(20)Lower gold price had the most substantial impact (aside from depletion) in reducing the 2013 Ore Reserve. 0.046 8.817 (2.19)(20)0.036 67.938 (6.14)(8) **SECTION FOUR SECTION FIVE SECTION SIX SECTION THREE SECTION TWO SECTION ONE GROUP OVERVIEW**

SOUTH AFRICA SECTION TWO

P18-57

This section covers AngloGold Ashanti's five deep level mines and surface operations in the South Africa Region.

ZA

MINERAL RESOURCE AND ORE RESERVE REPORT

2013

18

As at December 2013, AngloGold Ashanti's operations in South Africa have a total Inclusive Mineral Resource of 94.27Moz (2012:

98.60Moz) and an Ore Reserve of 30.90Moz (2012: 31.56Moz). This is equivalent to around 40% and 45% of the group's Mineral

Resource and Ore Reserve respectively. The South African operations produced 1.3Moz of gold in 2013, or 32% of group production,

and 1.38Mlb of uranium oxide.

Inclusive Mineral Resource

as at 31 December 2013

Tonnes

Grade

Contained gold

South Africa

Category

million

g/t

Tonnes

Moz

Measured

164.79

2.48

409.37

13.16

Indicated

949.84

2.07

1,968.70

63.30

Inferred

51.36

10.78

553.96

17.81

Total

1,165.99

2.51

2,932.03

94.27

Exclusive Mineral Resource

as at 31 December 2013

Tonnes

Grade

Contained gold

South Africa

Category

million

g/t

Tonnes

Moz

Measured

18.11

277.65

8.93

Indicated

230.62

3.71

856.27

27.53

Inferred

17.00

18.74

318.52

10.24

Total

262.95

5.52

1,452.43

46.70

Ore Reserve

as at 31 December 2013

Tonnes

Grade

Contained gold

South Africa

Category

million

g/t

Tonnes

Moz

Proved

150.77

0.68

102.05

3.28

Probable

731.97

1.17

859.08

27.62

Total

882.75

1.09

961.13

30.90

OVERVIEW

Moz

December 2012

December 2013

South Africa

Inclusive Mineral Resource – attributable

Per operation/project

Moz

December 2012

December 2013

South Africa

Ore Reserve – attributable

Per operation/project

* Savuka has formed part of TauTona operations since 2013.

19

SOUTH AFRICA

SECTION FOUR

SECTION FIVE

SECTION SIX

SECTION THREE

SECTION TWO

SECTION ONE

COUNTRY OVERVIEW

AngloGold Ashanti's South Africa operations comprise five deep-level underground mines and surface processing operations. These

operations are all located within the Witwatersrand Basin and are in two mining districts, the Vaal River and West Wits areas.

•

The Vaal River operations consist of the Great Noligwa, Kopanang and Moab Khotsong mines and the Vaal River Surface processing

operation. Since July 2012, Mine Waste Solutions (MWS) has also formed part of these operations.

•

The West Wits operations consist of the Mponeng and TauTona mines (Savuka forms part of TauTona operations) and the West Wits

Surface processing operation.

The Vaal River operations are situated near the town of Klerksdorp. The primary reefs mined by these operations are the Vaal Reef (VR),

the Ventersdorp Contact Reef (VCR) and the secondary Crystalkop Reef (C Reef).

The West Wits operations are situated near the town of Carletonville. The primary reefs mined by these operations are the Carbon

Leader Reef (CLR) and the Ventersdorp Contact Reef (VCR).

All five underground operations are 100% owned by AngloGold Ashanti. The Vaal River Surface, MWS and West Wits Surface

operations re-work the waste rock dumps and tailings dams which resulted from the mining and processing of the primary and

secondary reef horizons.

MINERAL RESOURCE ESTIMATION

The sampling data used in Mineral Resource estimation includes underground chip samples, underground drill holes and surface drill

holes. All sample locations are reported as a composite over a mineralised width, resulting in a single channel width (cm) and metal

accumulation (cm.g/t) value.

SOUTH AFRICA

continued

Free State

North

West

Province

Northern Cape

Eastern Cape

LESOTHO

Potchefstroom

Orkney

West Wits

Vaal River

TauTona

Mponeng

Surface Operations

Moab Khotsong

Surface Operations*

Great Noligwa

Kopanang

Carletonville

Gauteng

Mpumalanga

Kwazulu Natal

Limpopo

Johannesburg

* Includes Mine Waste Solutions (MWS).

South Africa

MINERAL RESOURCE AND ORE RESERVE REPORT

2013

20

AngloGold Ashanti makes use of a Bayesian geostatistical approach where, in the absence of dense sampling data, gold estimations

are based on a combination of the observed data and external knowledge relating to the data. A Bayesian geostatistical approach

asserts that the area to be evaluated forms part of a larger continuous entity, to which the observed data belongs.

Mixed support Co-Kriging is used in the estimation of the Mineral Resource for all South African underground operations. It is a

technique that enables the use of data of mixed support, allowing both drill hole and underground sampling data to be used together.

Estimation is performed into large block sizes, generally >210m x 210m, which fully capture the within-block variance, allowing the

Co-Kriging of data of different support sizes over long ranges. Estimation is done per geological homogeneous zone, in logarithmic

space because of the highly skewed gold distribution. The final gold estimates are then calculated by back transforming the estimates,

using lognormal four parameter distribution models. Simple Kriging is used for grade control and Measured Mineral Resource at a

30m x 30m block size and constrained by the weight of the mean value.

The Mineral Resource is initially reported as inclusive of the Ore Reserve as it forms the basis for the Ore Reserve conversion process.

Mineral Resource cut-off grades are computed for each operation, by reef horizon. These cut-off grades incorporate a profit margin

that is relevant to the business plan. Grade tonnage curves are produced for each operation, which show the potential of the deposit

at different cut-off grades.

ORE RESERVE ESTIMATION

Mine design delineates the mining areas and supporting development for each mining level and section, usually by extrapolating the

existing mining design. The *in-situ* Mineral Resource is scheduled monthly for the full Life of Mine (LOM) plan. The value estimates for

these schedules are derived from the Mineral Resource model.

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 milling width and the stoping width, as well as the Mine Call Factor (MCF). *Development sampling results – January to December 2013*

Development values represent actual results of sampling, no allowances having been made for adjustments necessary in estimating

the Ore Reserve.

Sampled gold

Sampled uranium

Statistics are shown in metric

units

Advanced

metres (total)*

Sampled

metres

Avg. channel

width (cm)

Avg. g/t

Avg. cm.g/t

Avg. kg/t

Avg. cm.kg/t Vaal River Great Noligwa Crystalkop Reef 345.0 50.0 10.2 92.84 947 2.37 36.72 Vaal Reef 911.4 86.0 58.9 45.69 2,691 1.53 76.81 Kopanang Vaal Reef 14,671.2 1,698.0 22.8 53.68 1,224 3.55 81.95 Moab Khotsong Vaal Reef 10,587.5 1,270.0 133.4 25.97 3,464 0.95 125.38 **West Wits** Mponeng Ventersdorp Contact Reef 13,277.2 1,962.0 69.4 27.84 1,932

TauTona

7,460.3

Carbon Leader Reef

393.0
23.2
122.80
2,849
1.54
31.11
* This includes both on-reef and off-reef development.
21
SOUTH AFRICA
SECTION FOUR
SECTION FIVE
SECTION SIX
SECTION THREE
SECTION TWO

SECTION ONE

LOCATION

Great Noligwa is located about 15km southeast of the town of Orkney, in the southern part of the Klerksdorp Goldfield. The Great

Noligwa mining lease area is about 49km

2

and is constrained to the north by China African Precious Metals, to the east by Buffelsfontein

mine, to the south by Moab Khotsong and the Jersey and De Hoek faults (downward displacement of 1,000m and 900m respectively),

and to the west by Kopanang Mine.

Great Noligwa Mine commenced production in 1968, making it one of the group's older South African mines. (It was originally Number

8 Shaft of the historic Vaal Reefs Mining Company). The economic horizons are exploited between 1,500m and 2,600m below surface

through a mining method that gains access to the gold-bearing reefs with footwall haulages and return airway development. Cross-

cuts are developed every 180m from the haulages to the reef horizon. Raises are then developed on-reef to the level above and the

reef is mined out on strike.

GEOLOGY

The Vaal Reef (VR) is the principal economic horizon at Great Noligwa and the Crystalkop Reef (C Reef) is the secondary economic

horizon. Both reefs are part of the Witwatersrand Supergroup and are stratigraphically located near the middle of the Central Rand

Group. The C Reef forms the top of the Johannesburg Subgroup, while the VR lies approximately 265m below the C Reef.

The VR unit can reach a maximum thickness of 2m and consists of a thin basal conglomerate (the C facies) and a thicker sequence

of upper conglomerates (the A facies). These two sedimentary facies are separated by the B facies, which is a layer of barren

orthoquartzite. A facies is the principal economic horizon within the VR, but remnants of the C facies are sporadically preserved below

the A facies. High gold values in the VR are often located at the base of this unit and are associated with high uranium values as well

as with the presence of carbon. Uranium is a very important by-product of Great Noligwa.

GREAT NOLIGWA

North West Province

N

Free State Province

Klerksdorp

Orkney

Village Main Reef

Hartebeestfontein

Stilfontein

Village Main Reef

Buffelsfontein

China African

Precious Metals

4 Shaft

Weltevreden

Vaal River

Village Main Reef

Tau Lekoa
Village Main Reef
Border
Great Noligwa
Moab Khotsong
Kopanang
Kilometres
0
1
2
3
4
Locality plan
MINERAL RESOURCE AND ORE RESERVE REPORT
2013

22

The C Reef has been mined on a limited scale in the central part of Great Noligwa, where a high-grade, north-south orientated

sedimentary channel, containing two economic horizons, has been exposed. To the east and the west of this channel the C Reef is

poorly developed with relatively small areas of economic interest. As in the case of VR, high uranium values are also often associated

with high gold values and the presence of a 5mm to 2cm thick carbon seam at the base of the conglomerate. To the north of the mine

the C Reef sub-crops against the Gold Estates Conglomerate Formation and in the extreme south of the mine the C Reef has been

eliminated by a deep Kimberley erosion channel and the Jersey fault.

A geological model is employed to delineate variations (either lateral or vertical) in characteristics of the VR. The current geological

model thus subdivides the VR at Great Noligwa, Kopanang and Moab Khotsong Mines into homogeneous zones (referred to as

geozones, facies or Estimation Domains (ED)) based on geological and grade characteristics.

EXPLORATION

Exploration is currently focused on defining smaller structural features of less than 10m that have an influence on the mining

activities. With the conclusion of exploration drilling in the Fish Project area no further exploration to increase the Mineral Resource

has been planned.

PROJECTS

Increase in Mineral Resource and Ore Reserve

The Mineral Resource has increased by 58% due to changed assumptions about considerations of reasonable and realistic prospects

for eventual economic extraction. This was done as a result of the change in economic and business guidelines for Great Noligwa Mine

allowing for an increase in the Mineral Resource (mainly from the C Reef and the Fish Area on the VR) and Ore Reserve.

Fish Project (Zuiping A Fault loss)

Drilling was completed within the Zuiping A Fault zone containing remnant blocks of VR. This ground is situated in the eastern part of

the mining lease area and is referred to as the Fish Block. The reef blocks are situated in a high-grade zone within the Zuiping A Fault

loss area. The Zuiping faults are early NNW-dipping thrusts and reverse faults. Based on new exploration drilling information the area

has been subject to a significant structural re-interpretation. As a result the geological confidence has been increased for this area and

the block was re-instated into the Mineral Resource. The mining feasibility of this block will be investigated during 2014.

C Reef

A large portion of C Reef was re-instated into the Mineral Resource on the basis that it is now potentially economic. This was due to

economic considerations resulting in C reef being included into the Planning Resource (Reserve). 96% of the C Reef Mineral Resource

falls within the Measured and Indicated Mineral Resource categories. Exploration drilling is currently focused on delineating smaller

faults with throws of less than 10m and the edges of the erosional Kimberley channels.

AngloGold Ashanti Technology and Innovation Consortium (ATIC) Project

A C Reef block of ground was identified on 64 Level, where the ATIC Project will focus on improving the mining method that can better

extract lower-value reef. This should increase productivity, improve gold recovery, reduce development costs and improve safety.

Currently access development is taking place and reef boring is expected to start during the latter part of 2014.

MINERAL RESOURCE

SECTION SIX

Details of average drill-hole spacing and type in relation to Mineral Resource classification
Type of drilling
Mine/Project
Category
Spacing
m (-x-)
Diamond
RC
Blast-hole
Channel
Other
Comments
Great Noligwa
Measured
5 x 5
-
Underground chip sampling
Indicated
100 x 100
-
-
-
-
Underground drilling
Inferred
1,000 x 1,000
-
-
-
_
Surface drilling
Grade/Ore Control
_
_
-
See Measured category
23
SOUTH AFRICA
SECTION FOUR
SECTION FIVE

SECTION THREE SECTION TWO SECTION ONE

1.04 -0.13 0.00 0.78 0.05 0.00 -0.10 0.00 1.64 Ounces (millions) 1.8 1.7 1.6 1.5 1.4 1.3 1.2 1.1 1.0 0.9 0.8 2012 Depletion Gold price Cost Exploration Methodology Other Acquisition/ Disposal 2013 **Great Noligwa** Mineral Resource reconciliation: 2012 to 2013 0.39 -0.07 0.16 0.00 0.00 -0.01 0.00 0.00 0.48 Ounces (millions)

0.50 0.48

0.46 0.44 0.42 0.40 0.38 0.36 0.34 0.32 0.30 2012 Other 2013 **Great Noligwa** Ore Reserve reconciliation: 2012 to 2013 Depletion Model change **Economics** New ounces from **Projects** Scope Change Acquisition/ Disposal **GREAT NOLIGWA** continued Inclusive Mineral Resource as at 31 December 2013 **Tonnes** Grade **Contained** gold **Great Noligwa** Category million g/t **Tonnes** Moz Crystalkop Reef Measured 0.50 13.05 6.54 0.21 Indicated 0.19

15.61 3.01 0.10

Inferred 0.00 23.10 0.05 0.00 Total 0.70 13.79 9.60 0.31 Vaal Reef Measured 1.99 18.29 36.38 1.17 Indicated 0.20 17.63 3.59 0.12 Inferred 0.05 24.57 1.30 0.04 Total 2.25 18.38 41.27 1.33 Great Noligwa Total 2.94 17.29 50.87 1.64 Exclusive Mineral Resource as at 31 December 2013 **Tonnes** Grade **Contained gold South Africa** Category million g/t **Tonnes** Moz

Great Noligwa Measured 1.05

20.57 21.67 0.70 Indicated 0.07 29.61 2.20 0.07 Inferred 0.05 24.51 1.35

Great Noligwa

Total

0.04

1.18

21.32

25.22

0.81

The majority of the Exclusive Mineral Resource is due to design and schedule losses planned in the structurally complex mineralised deposit.

Mineral Resource below infrastructure

There is no Mineral Resource below infrastructure.

MINERAL RESOURCE AND ORE RESERVE REPORT

2013

ORE RESERVE Ore Reserve as at 31 December 2013 **Tonnes** Grade **Contained gold Great Noligwa** Category million g/t **Tonnes** Moz Crystalkop Reef Proved 0.39 5.68 2.21 0.07 Probable 0.15 5.81 0.86 0.03 Total 0.54 5.72 3.07 0.10 Vaal Reef Proved 1.09 9.24 10.11 0.33 Probable 0.20 8.49 1.70 0.05 Total 1.29 9.12 11.81 0.38 Great Noligwa Total 1.83

8.12 14.88 0.48

Ore Reserve modifying factors

as at **31 December 2013 Great Noligwa** Gold price ZAR/kg **Cut-off** value g/t Au **Cut-off** value cm.g/t Au **Stoping** width cm **Dilution** % **Diluted** grade **MCF** % **MetRF** Crystalkop Reef 360,252 11.24 1,600 142.3 59.8 8.52 58.0 94.5 Vaal Reef 360,252 9.13 1,600 175.2 50.6 9.34 58.0 94.5 Inferred Mineral Resource in business plan No planning or scheduling took place in areas classified as Inferred Mineral Resource. Ore Reserve below infrastructure There is no Ore Reserve reported below infrastructure. 0 2 4 6

10 12 14 16 18 20 Tonnes above cut-off (millions) Average grade above cut-off (g/t) Cut-off grade (g/t) 27 26 25 24 23 22 21 20 19 18 17 16 3.0 2.8 2.6 2.4 2.2 2.0 1.8 1.6 1.4 1.2 1.0 0.8 Tonnes above cut-off Ave grade above cut-off **Great Noligwa Grade tonnage curve – Underground (metric) COMPETENT PERSONS** Category **Competent Person Professional** organisation Membership number Relevant experience

Qualification

Mineral Resource

Brenda Freese

GSSA

966 602

16 years

BSc Hons (Geology)

GDE (Mineral Economics) WITS

Ore Reserve

Willie Olivier

PLATO

MS 0136

23 years

Government Certificate of Competency

in Mine Survey

25

SOUTH AFRICA

SECTION FOUR

SECTION FIVE

SECTION SIX

SECTION THREE

SECTION TWO

SECTION ONE

LOCATION

Kopanang is one of three AngloGold Ashanti mines located in the Vaal River district, the other two being Great Noligwa and Moab

Khotsong. Kopanang is located in the Free State province, approximately 170km southwest of Johannesburg and 10km southeast

of the town of Orkney. The current mining lease encompasses an area of 35km

2

and is bound by Great Noligwa to the east, China

African Precious Metals Number 3 Shaft to the north and the Jersey fault (1,000m displacement) to the south. The natural extension

of the mine is to the southwest.

The mine has been in production since 1984. The shaft was sunk based on geological information provided by 14 surface drill holes

(of which only eight had intersected Vaal Reef (VR)), shaft sinking initiated in 1977 and was completed by 1981 with production

commencing in 1984. The gold-bearing reef horizons are accessed via a twin shaft system which descends to a maximum depth of

2,334m, while the main working levels are situated between 1,300m and 2,024m below surface. A sequential grid mining layout is

used from which scattered mining takes place.

GEOLOGY

Kopanang is situated in a structurally complex area of the Witwatersrand Basin, which has been subjected to numerous tectonic

events. Two tabular gold- and uranium-mineralised reef horizons, the VR and Crystalkop Reef (C Reef), have been mined historically

at Kopanang. Currently only the VR is being mined, with limited C Reef mining planned during the LOM. The C Reef is situated

stratigraphically about 250m above the VR at Kopanang and is accessible through the VR infrastructure. These conglomerate units

dip at an average of 21° towards the south and occur in a 2,100m thick sedimentary sequence comprising the Central Rand Group.

Mining is complicated by the presence of an assortment of steep $(85^{\circ}-50^{\circ})$ north-dipping and younger low-angle $(50^{\circ}-15^{\circ})$ south-

dipping faults. The interplay of these main fault regimes, along with abundant pre- and post-dating dykes, makes for a complex and

geologically challenging deposit.

A geological model is employed to delineate variations (either lateral or vertical) in characteristics of the VR. The current geological

model thus subdivides the VR at Great Noligwa, Kopanang and Moab Khotsong Mines into homogeneous zones (referred to as

geozones, facies or Estimation Domains (ED)) based on geological and grade characteristics.

KOPANANG

MINERAL RESOURCE AND ORE RESERVE REPORT

2013

EXPLORATION

Brownfields exploration targeting VR on Gencor 1 E and De Pont Landing was completed during 2013. The exploration encompassed

the drilling of six exploration holes from surface and three long inclined drill holes from underground over a period of five years.

The new information acquired, in conjunction with historical drill hole information, alteration mineralogy studies, underground chip

sampling data and analysis, resulted in the re-introduction of the 520 Estimation Domain (ED) to the west of the current mining

front. The 520 ED was believed to be unnecessary because the reef was interpreted as having the same lithological characteristics

as the 460 and 430 geozones and was removed during 2007. Mining progressed well into the historic 520 ED and returned values

significantly above the low values (< 200cm.g/t) associated with the 520 ED. The exploration programme from 2009 to 2013 was

designed to test the gold value to the west.

The 520 ED has been used for the estimation of the 2013 Mineral Resource. The result of this facies change was that values in the

520 ED decreased to an average estimate of 193cm.g/t and the contained ounces were no longer considered as reasonable and

realistic prospects for eventual economic extraction. The value for the 520 ED was estimated by a global estimate using the surface

drill holes in the 520 ED.

Exploration drilling in the area below 68 Level, that is beneath current mine infrastructure, was completed during 2013. The target

blocks consist of VR Inferred and Indicated Mineral Resource and also projected target blocks towards the Jersey fault. This drilling

has increased confidence in the Mineral Resource. However there was no increase in contained ounces.

Exploration on the Ventersdorp Contact Reef (VCR) was re-started during 2011 through surface drilling operations. This reef is situated

approximately 500m stratigraphically above the VR on Kopanang. After the promising results that were returned from KGD8 whereby

the targeted facies was intersected at a value of 3,633cm.g/t over a channel width of 282cm, two exploration holes from underground

and an additional surface hole were drilled during 2013. This was to test the lateral and distal extent of the economic VCR facies

within reach of the current infrastructure. KGD12 was drilled from surface and intersected the oligomictic channel superimposed on an

underlying polymictic channel. Values were returned of 929cm.g/t for the two acceptable and representative intersections (Deflections

3 and 4) over a channel width of 186cm.

In addition to this surface drill hole, LIBB15 and K7865 were drilled from underground platforms. Both these holes were stopped

short of the VCR due to the holes extending well past the original anticipated VCR positions and placing the blocks above the current

infrastructure. K7865, drilling from 53 BW RAW was stopped in the Mondeor Formation at 293m due to safety concerns. This was a

steeply-inclined hole and the depth penetration limit of the rig was reached. LIBB15 drilling from 50 BW Access Crosscut was stopped

at 324m in the GE4s approximately 80-100m short of the VCR. This information allowed for the structure model to be updated. A

much larger exploration plan is required to confirm the VCR high-grade channel extension and the structure. This will be dependent

on the feasibility of mining the VCR profitably. No VCR is included in the Mineral Resource.

PROJECTS

See Measured category

AngloGold Ashanti Technology and Innovation Consortium (ATIC) Reef Boring Project

A VR block of ground was identified on 42 Level, where the ATIC Project will focus on improving the mining method that can better

extract lower-value reef. This should increase productivity, improve gold recovery, reduce development costs and improve safety.

miprove surety.
Access development was completed during 2013 and reef boring is planned to begin during the first half of 2014. MINERAL RESOURCE
Details of average drill-hole spacing and type in relation to Mineral Resource classification
Type of drilling
Mine/Project
Category
Spacing Spacin
m (-x-)
Diamond
RC
Blast-hole
Channel
Other
Comments
Kopanang
Measured
5 x 5
_
_
_
_
Underground chip sampling
Indicated
100 x 100
_
_
-
-
Underground drilling
Inferred
1,000 x 1,000
-
-
-
_
Surface drilling
Grade/Ore Control
-

27
SOUTH AFRICA
SECTION FOUR
SECTION FIVE
SECTION SIX
SECTION THREE
SECTION TWO
SECTION ONE

Inclusive Mineral Resource

as at 31 December 2013

Tonnes

Grade

Contained gold

Kopanang

Category

million

g/t

Tonnes

Moz

Crystalkop Reef

Measured

0.07

11.92

0.86

0.03

Indicated

0.41

12.87

5.34

0.17

Inferred

0.39

13.46

5.29

0.17

Total

0.88

13.06

11.49

0.37

Vaal Reef EDOM

Measured

0.16

12.96

2.11

0.07

Indicated

0.37

7.05

2.63

0.08

Inferred

0.05

51.28

2.37

0.08

Total

0.58

12.22

7.11 0.23 Vaal Reef Base Measured 4.48 14.36 64.28 2.07 Indicated 6.42 13.29 85.32 2.74 Inferred 0.23 71.99 16.61 0.53 Total 11.13 14.94 166.22 5.34 Vaal Reef Above Infrastructure Measured 0.06 14.84 0.83 0.03 Indicated 1.99 11.73 23.31 0.75 Inferred 0.12 18.99 2.29 0.07 Total 2.16 12.22 26.43 0.85 Kopanang Total 14.75 14.32

211.24 6.79

42% of the Exclusive Mineral Resource is expected to be taken up by the shaft pillar and Mineral Resource beyond the current

infrastructure. 43% can be attributed to design and schedule losses in structurally complex areas and areas with marginal gold

mineralisation. 15% of the Exclusive Mineral Resource has been identified as areas for investigation with potential for inclusion

in the Planning Resource.

Exclusive Mineral Resource

as at 31 December 2013

Tonnes

Grade

Contained gold

Kopanang

Category

million

g/t

Tonnes

Moz

Measured

2.58

18.64

48.01

1.54

Indicated

2.41

21.74

52.42

1.69

Inferred

0.56

30.96

17.39

0.56

Kopanang

Total

5.55

21.23

117.82

3.79

Mineral Resource below infrastructure

as at 31 December 2013

Tonnes

Grade

Contained gold

Kopanang

Category

million

g/t

Tonnes

Moz

Measured

- 0.04
- 17.51
- 0.67
- 0.07

Indicated

- 0.33
- 13.57
- 4.42
- 0.14

Inferred

- 0.28
- 16.55
- 4.70
- 0.15

Kopanang

- Total
- 0.65
- 15.11
- 9.78
- 0.31

KOPANANG

continued

MINERAL RESOURCE AND ORE RESERVE REPORT

2013

ORE RESERVE Ore Reserve

as at 31 December 2013

Tonnes

Grade

Contained gold

Kopanang

Category

million

g/t

Tonnes

Moz

Crystalkop Reef

Proved

0.02

5.31

0.09

0.00

Probable

0.35

6.60

2.28

0.07

Total

0.36

6.54

2.36

0.08

Vaal Reef EDOM

Proved

0.16

4.63

0.72

0.02

Probable

0.21

4.52

0.97

0.03

Total

0.37

4.57 1.70

0.05

Vaal Reef Base

Proved

2.02

6.61

13.34

0.43

Probable

4.03 6.90 27.84 0.90 Total 6.05 6.81 41.18 1.32 Kopanang Total 6.78 6.67 45.24 1.45 Ore Reserve modifying factors as at 31 December 2013 **Kopanang** Gold price ZAR/kg **Cut-off** value g/t Au **Cut-off** value cm.g/t Au **Stoping** width cm **Dilution** % **Diluted** grade **MCF** % **MetRF** % Crystalkop Reef 360,252 9.43 1,000 106.0 53.5 7.51 70.5 95.5

Vaal Reef Base

360,252 9.43

1,000 106.0 51.3 7.18 70.5 95.5 Vaal Reef EDOM 360,252 9.43 1,000 106.0 51.4 4.83 70.5 95.5 Inferred Mineral Resource in business plan as at 31 December 2013 **Tonnes** million Grade g/t **Contained gold Kopanang Tonnes Moz Comment** Crystalkop Reef 0.09 15.60 1.47 0.05 In situ content Vaal Reef Base 0.06 12.14 0.77 0.02 In situ content Total 0.16 14.21 2.24 0.07 With appropriate caution, some Inferred Mineral Resource was included in the business plan during the optimisation process. This accounts for 3% of the business plan. Ore Reserve below infrastructure There is no Ore Reserve reported below infrastructure. 9.25 -0.28 0.00 -1.13

-1.15 0.00 0.10 0.00 6.79 Ounces (millions) 9.5 9.0 8.5 8.0 7.5 7.0 6.5 6.0 2012 Depletion Gold price Cost Exploration Methodology Other Acquisition/ Disposal 2013 **Kopanang** Mineral Resource reconciliation: 2012 to 2013 1.39 -0.20 0.18 0.00 0.00 0.08 0.00 0.00 1.45 Ounces (millions) 1.50 1.45 1.40 1.35 1.30 1.25 1.20

1.15 1.10

2012

Deple-

tion

Model

change

Economics

New

ounces

from

Projects

Scope

Change

Other

Acquisition/

Disposal

2013

Kopanang

Ore Reserve reconciliation: 2012 to 2013

29

SOUTH AFRICA

SECTION FOUR

SECTION FIVE

SECTION SIX

SECTION THREE

SECTION TWO

SECTION ONE

0 2 4 6 8 10 12 14 16 18 20 Tonnes above cut-off (millions) Average grade above cut-off (g/t) Cut-off grade (g/t) 30 28 26 24 22 20 18 16 14 12 16 14 12 10 8 6 4 2 0 Tonnes above cut-off Ave grade above cut-off **Kopanang Grade tonnage curve – Underground (metric) KOPANANG** continued **COMPETENT PERSONS** Category **Competent Person Professional** organisation Membership number

Relevant

experience

Qualification

Mineral Resource

Brenda Freese

GSSA

966 602

16 years

BSc Hons (Geology)

GDE (Mineral Economics) WITS

Ore Reserve

Willie Olivier

PLATO

MS 0136

23 years

Government Certificate of Competency

in Mine Survey

MINERAL RESOURCE AND ORE RESERVE REPORT

2013

MOAB KHOTSONG

LOCATION

Moab Khotsong is situated near the towns of Orkney and Klerksdorp, about 180km southwest of Johannesburg. The mining lease

area lies to the south of Great Noligwa and Kopanang mines. Moab Khotsong is a relatively new mine and the first gold was produced

in 2003.

The original plan was to exploit two distinct portions of the Moab Khotsong lease area, namely the Middle Mine (85 to 101 Level)

and the Lower Mine (101 to 118 Level). The Middle Mine exploits the Vaal Reef (VR) to depths of between 2,600m and 3,054m

below surface on the down-thrown side of the De Hoek and Jersey fault complex. In 2008 the SV4 section of Great Noligwa was

incorporated into Moab Khotsong and this section is now termed the Top Mine.

The extension of Moab Khotsong mine to the down-thrown side of the fault complex is strategic because the life of the Vaal River

operations could be increased significantly. The initial development of Moab Khotsong was taken with a view that the new mine would

be well positioned to exploit additional surrounding ore blocks. The most important of these blocks will be the Zaaiplaats blocks,

positioned to the southwest of the current Moab Khotsong infrastructure and extending some 400m deeper than the existing mine.

Mining is based on a scattered mining method with an integrated backfill support system combined with bracket pillars. GEOLOGY

The VR is the only economic horizon that is exploited at Moab Khotsong mine (refer to the description of the VR under the Great

Noligwa section on page 18). The Crystalkop Reef (C Reef) is preserved in the northern part of the mine where the reef has been

intersected by a number of drill holes. No development or stoping has taken place on the C Reef at Moab Khotsong to date.

The geology at Moab Khotsong is structurally complex with large fault-loss areas, but the main block at Zaaiplaats appears to be

comparatively undeformed and only faults of less than 30m displacement are expected. The geological setting is one of crustal

extension, bounded in the northwest and southeast by major south-dipping fault systems with north-dipping Zuiping faults sandwiched

between them. The De Hoek and Buffels East faults structurally bound the reef blocks of the Middle Mine to the northwest and

southeast respectively and the northern boundary is a north-dipping fault. The southern boundary fault of the Middle Mine is currently

not defined. Drilling is currently taking place in the Middle Mine area to obtain structural information below 101 Level. Due to the magnitude of the displacement across the De Hoek fault (more than 700m down to the south), geological structures

encountered on the up-thrown side of the De Hoek fault cannot be locally projected to the down-thrown side and vice versa. It is only

once the development is through the De Hoek fault that geological mapping information has any bearing on the reef blocks, and a

considerable amount of exploration drilling is required to accurately delineate these blocks in this structurally complex area

Occurrences of gold

SOUTH AFRICA SECTION FOUR SECTION FIVE SECTION SIX SECTION THREE SECTION TWO SECTION ONE

EXPLORATION

Brownfields exploration is currently focused on improving confidence in the geological model. Five surface drilling machines and

nineteen underground drilling machines were in operation during 2013 and reduced to one and seven respectively by end of 2013.

The surface drill hole MHH2 was drilled on the Hormah Prospecting Right area adjacent to the current Lower Mine Area C. MHH2

intersected an unusual development of poor VR at 31,43.98m beneath a large fault, interpreted to significantly reduce the size of the

target block. Plans to drill MHH3 were subsequently cancelled and the Hormah Prospecting Right was allowed to lapse.

Two rigs (MGR6 and MGR8) targeted the periphery of the Zaaiplaats project area, where multiple structures define the ore block

margins. The deflection drilling programme at drill hole MGR8 was further delayed by technical issues and subsequently abandoned

due to cost reductions implemented during 2013. The long deflection of MGR6 progressed drilling in order to increase the structural

confidence along the southern margin of Zaaiplaats. The deflection was stopped at a depth of 2,416.87m as a result of the capital

budget cuts.

Two rigs (MMB6 and MMB7) targeted the core of the Zaaiplaats project area, where dip changes and increased grade variability

could impact on the Ore Reserve. Surface drill hole MMB6 obtained the target reef horizon after one year of diamond drilling. The VR

was intersected at a depth of 3,309.73m, only 11.3m above the current structural model. Drill hole MMB7 similarly achieved the VR

intersection after one year of diamond drilling. The intersected depth of 3,335.11m was 29m below the current modelled position.

A third surface drill hole, MZA10, is planned to drill for additional structural certainty in the early gold portion of Zaaiplaats and is

scheduled to commence drilling in early 2014.

Surface drill hole MCY6, which was drilled to upgrade target blocks east of Moab Middle Mine, intersected substantial faulting.

Stratigraphic reconciliation with the model indicated that the target blocks are both smaller and at far greater depths than originally

modelled. Hence subsequent planned surface holes MCY7 and MCY8 have been abandoned.

Nineteen underground diamond drilling machines were deployed to carry out capital drilling on the Top, Middle and Lower Mines at

the beginning of the year and later reduced to seven machines during the year. This drilling is primarily used to obtain structural and

grade information aimed at increasing the Mineral Resource base of Moab Khotsong Mine. Two drilling rigs are currently deployed in

the Top Mine to obtain structural information on the VR blocks below 76 Level. Three drilling rigs were deployed in the Middle Mine to

obtain structural information on the Level 3 VR blocks below 101 Level while five drill rigs located in the Middle Mine to obtain structural

information on both the VR and C Reef horizons in the eastern area of the mine were removed.

Four drilling rigs were initially deployed to carry out capital drilling associated with the Zaaiplaats project where two hydraulics were

drilling for cover and two Long Inclined Boreholes (LIB) for exploration. The primary purpose of the current drilling is to improve

confidence in both geological and grade distribution in the Zaaiplaats block. During November two mother holes (LIB78 and LIB79)

intersected VR, becoming the first underground exploration reef Intersections in the Zaaiplaats block. The drill rigs are currently busy

with short deflections to obtain additional evaluation compliant VR intersections.

PROJECTS

The initial development of Moab Khotsong was taken with a view that the new mine would be well positioned to exploit additional

surrounding ore blocks adjacent and contiguous to current mining areas. The most important of these blocks will be the Zaaiplaats

blocks, positioned to the southwest of the current Moab Khotsong infrastructure and extending below the existing mine. The Moab

Khotsong Level 1 business plan is expected to produce some 2.0Moz of gold. Zaaiplaats will provide an additional 5.2Moz, of

gold, extending the mine's life to approximately 2040 and serving as a gateway for opportunities beyond the initial target blocks.

Phase 1 of Project Zaaiplaats was approved in July 2010 and was concluded during April 2013 with the commissioning of the second

rock silo. No gold will be produced during this phase which will be used to establish infrastructure required for phase 2. Phase 2

will create a drilling platform and exploit early opportunities to produce gold. Phase 2 aims to produce 0.5Moz of gold which will

supplement the current business plan. The Phase 2 project has been deferred by two years, providing time to investigate alternatives,

following gold price drop and variation from initial project assumptions.

The phase 3 study concluded a pre-feasibility study in March 2013. The pre-feasibility study explored various conventional mining

options of accessing the mineralised deposit through either Moab Khotsong or Kopanang, while accessing other mining blocks

adjacent and contiguous to the Zaaiplaats mineralised deposit. The South African Region ATIC study team is conducting concept

studies applying technology mine design concepts to the Zaaiplaats blocks.

MOAB KHOTSONG

continued

MINERAL RESOURCE AND ORE RESERVE REPORT

2013

MINERAL RESOURCE

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

Type of drilling

Mine/Project

Category

Spacing

m (-x-)

Diamond

RC

Blast-hole

Channel

Other

Comments

Moab Khotsong

Measured

5 x 5

_

_

_

Underground chip sampling

Indicated

100 x 100,

800 x 800

-

_

-

Underground drilling

Inferred

1,000 x 1,000

_

_

Surface drilling

Grade/Ore Control

_

_

See Measured category

Inclusive Mineral Resource

as at 31 December 2013

Tonnes

Grade

Contained gold

Moab Khotsong

Category

million

g/t

Tonnes Moz Vaal Reef Lower Mine – Area A Measured Indicated 0.16 22.86 3.74 0.12 Inferred 1.08 19.28 20.84 0.67 Total 1.25 19.75 24.59 0.79 Vaal Reef Lower Mine – Area B Measured Indicated 3.99 9.64 38.41 1.24 Inferred 1.39 9.49 13.16 0.42 Total 5.37 9.60 51.58 Vaal Reef Lower Mine – Area C Measured

Indicated

```
1.00
21.26
21.19
0.68
Inferred
1.45
22.70
32.99
1.06
Total
2.45
22.11
54.18
1.74
Vaal Reef Lower Mine – Area PZ 2
Measured
Indicated
8.96
20.78
186.13
5.98
Inferred
2.93
20.87
61.23
1.97
Total
11.89
20.81
247.37
7.95
Crystalkop Reef – Middle Mine Area
Measured
Indicated
Inferred
1.28
9.58
12.22
```

0.39

Total 1.28 9.58 12.22 0.39 Vaal Reef - Middle Mine Measured 1.55 23.56 36.49 1.17 Indicated 5.29 22.63 119.75 3.85 Inferred 1.91 18.40 35.12 1.13 Total 8.75 21.87 191.35 6.15 Vaal Reef – Top Mine Measured 0.72 18.89 13.60 0.44 Indicated 0.32 17.66 5.62 0.18 Inferred 0.03 29.01 0.97 0.03 Total 1.07 18.84 20.19 Vaal Reef – Great Noligwa Shaft Pillar Measured 0.11 16.95

1.83 0.06 Indicated 1.53 16.42 25.06 0.81 Inferred Total 1.63 16.45 26.89 0.86 Moab Khotsong Total 33.69 18.65 628.36 20.20 33 **SOUTH AFRICA SECTION FOUR SECTION FIVE SECTION SIX**

SECTION THREE SECTION TWO SECTION ONE

Exclusive Mineral Resource as at 31 December 2013 **Tonnes** Grade Contained gold **Moab Khotsong** Category million g/t **Tonnes** Moz Measured 1.13 29.62 33.54 1.08 Indicated 8.52 21.05 179.30 5.76 Inferred 10.07 17.53 176.54 5.68 Moab Khotsong Total 19.72 19.74 389.38 12.52 The Exclusive Mineral Resource consists of designed rock engineering bracket pillars, designed dip pillars and the Great Noligwa shaft pillar on the VR. The major portion of this Exclusive Mineral Resource is located in the Lower Mine area, with minor amounts in the Top and Middle Mines, C Reef and shaft pillar areas. The bracket pillars are designed for safety reasons and will therefore not be mined, whereas the shaft pillar can only be safely extracted at the end of the mine life.

Mineral Resource below infrastructure

as at 31 December 2013

Tonnes

Grade

Contained gold

Moab Khotsong

Category

million

g/t

Tonnes

Moz

Measured

0.37 23.80 8.73 0.28 Indicated 13.48 20.07 270.57 8.70 Inferred 7.62 20.41 155.49 5.00 Moab Khotsong Total 21.47 20.25 434.79 13.98 20.91 -0.29 0.00 -0.37 -0.05 0.00 0.00 0.00 20.20 Ounces (millions) 21.0 20.9 20.8 20.7 20.6 20.5 20.4 20.3 20.2 20.1 2012 Depletion Gold price Cost Exploration

Methodology Other

Acquisition/ Disposal 2013 **Moab Khotsong** Mineral Resource reconciliation: 2012 to 2013 6.61 -0.22 -0.23 0.00 0.00 -0.070.03 0.00 6.12 Ounces (millions) 6.7 6.6 6.5 6.4 6.3 6.2 6.1 6.0 5.9 2012 Other 2013 **Moab Khotsong** Ore Reserve reconciliation: 2012 to 2013 Depletion Model change **Economics** New ounces from **Projects** Scope Change Acquisition/ Disposal **MOAB KHOTSONG** continued MINERAL RESOURCE AND ORE RESERVE REPORT 2013

34

ORE RESERVE Ore Reserve as at 31 December 2013 **Tonnes** Grade **Contained gold Moab Khotsong** Category million g/t **Tonnes** Moz Vaal Reef Lower Mine – Area PZ 2 Proved Probable 14.03 9.18 128.75 4.14 Total 14.03 9.18 128.75 4.14 Vaal Reef - Middle Mine Proved 0.74 12.73 9.39 0.30 Probable 3.48 12.91 44.95 1.45 Total 4.22 12.88 54.34 1.75 Vaal Reef – Top Mine Proved 0.51 9.33 4.72

0.15 Probable

0.29 9.11 2.60 0.08 Total 0.79 9.25 7.32 0.24 Moab Khotsong Total 19.04 10.00 190.41 6.12 Ore Reserve modifying factors as at **31 December 2013 Moab Khotsong** Gold price ZAR/kg **Cut-off** value g/t Au **Cut-off** value cm.g/t Au **Stoping** width cm **Dilution** % **Diluted** grade **MCF** % **MetRF** Vaal Reef - Lower Mine - Area PZ 2 360,252 3.94 500 127.0 56.5 11.90 81.0 96.0 Vaal Reef - Middle Mine

```
360,252
3.21
500
155.6
45.1
10.56
77.2
95.6
Vaal Reef - Top Mine
360,252
3.05
500
164.0
48.5
17.47
76.1
95.1
Inferred Mineral Resource in business plan
as at 31 December 2013
Tonnes
million
Grade
g/t
Contained gold
Moab Khotsong
Tonnes
Moz
Comment
Vaal Reef Lower Mine – Area
PZ 2
2.34
21.01
49.23
1.58
Vaal Reef - Middle Mine
0.24
9.29
2.23
0.07
Vaal Reef - Top Mine
0.01
30.19
0.43
0.01
Total
2.60
19.98
```

1.67 The Inferred Mineral Resource was used for optimisation purposes as it forms part of the business plan, but it was not included in the Ore Reserve. Ore Reserve below infrastructure as at 31 December 2013 **Tonnes** Grade **Contained gold Moab Khotsong** Category million g/t **Tonnes** Moz Proved Probable 14.03 9.18 128.75 4.14 Moab Khotsong Total 14.03 9.18 128.75 4.14 35 **SOUTH AFRICA SECTION FOUR SECTION FIVE**

SECTION SIX SECTION THREE SECTION TWO SECTION ONE

COMPETENT PERSONS

Category

Competent Person

Professional

organisation

Membership

number

Relevant

experience

Qualification

Mineral Resource

Francis Rebaone

Gaelejwe

GSSA

965 326

13 years

BSc Hons (Geology)

Ore Reserve

Andre Johnson

SACNASP

400011/06

23 years

Government Certificate of Competency

in Mine Survey

HND (Mineral Resource Management)

MEng (Mining Engineering)

MOAB KHOTSONG

continued

0

2

4

8

10

12

14

16

18

Tonnes above

cut-off (millions)

Average

grade

above

cut-off (g/t)

Cut-off grade (g/t)

27

25

23

21

19

17

34
30
26
22
18
14
10
Tonnes above cut-off
Ave grade above cut-off
Moab Khotsong
Grade tonnage curve – Underground (metric)
MINERAL RESOURCE AND ORE RESERVE REPORT
2013
36

LOCATION

Along with TauTona and Savuka, Mponeng comprises the West Wits Operations. Situated south of the TauTona and Savuka mines,

Mponeng is near the town of Carletonville and approximately 65km west of Johannesburg. Mponeng was previously named Western

Deep Levels South.

The original twin shaft sinking from surface commenced in 1981 and was commissioned along with the gold plant complex in

1986 when production began. Through the use of two hoisting shafts, a sub-shaft and two service shafts, Mponeng exploits the

Ventersdorp Contact Reef (VCR) between depths of 2,800m and 3,400m below surface.

South of the Mponeng lease area lies the Western Ultra Deep Levels (WUDLS) area. This area is currently being explored through a

surface drilling programme and from underground drilling platforms.

GEOLOGY

The VCR is the main reef horizon being mined at Mponeng. The VCR forms the base of the Ventersdorp Supergroup which caps

the Witwatersrand Supergroup through an angular unconformity. The overlying Ventersdorp Lavas halted the deposition of the VCR

preserving it in its current state. The VCR consists of a quartz pebble conglomerate, which can be up to 3m thick in places. The

footwall stratigraphy, following a period of uplift and erosion, controlled the development and preservation of the VCR. The footwall

consists of series of sedimentary layers from the Central Rand Group of the Witwatersrand Supergroup which, due to its erosional

nature, exposes VCR from the youngest layers in the west to the oldest in the east.

MPONENG

N

Kilometres

0

1

2

3

Carletonville

Fochville

Mponeng

TauTona

Savuka

Welverdiend

Sibanye Gold Limited

Driefontein Gold Mine

Blyvooruitzicht

Harmony

Kusasalethu

Gauteng Province

Locality plan

37

SOUTH AFRICA

SECTION FOUR

SECTION FIVE

SECTION SIX SECTION THREE SECTION TWO SECTION ONE

MPONENG

continued

The relatively argillaceous protoquartzites of the Kimberley Formation are covered by the best-preserved VCR conglomerates.

The VCR is characterised by a series of channel terraces preserved at different relative elevations, and the highest gold values are

preserved in these channel deposits. The different channel terraces are divided by zones of thinner 'slope' reef, which is of lower value

and becomes more prevalent on the higher terraces and on the harder footwall units. The Elsburg Formation lies to the west and is

relatively more durable, while the eastern side of the mine is dominated by shales and siltstones of the Booysens Formation and due

to the erosional nature of the system, preserved both thick and thinner VCR conglomerates. No VCR is preserved on the Krugersdorp

Formation on the far eastern side of Mponeng.

The other gold-bearing reef with reported Mineral Resource for Mponeng is the Carbon Leader Reef (CLR). This reef has been mined at

the adjacent Savuka and TauTona mines, and plans are being made at Mponeng to mine the CLR in the future. The CLR at Mponeng

consists of (on average) a 20cm thick, tabular, auriferous quartz pebble conglomerate formed near the base of the Central Rand

Group. The CLR is approximately 900m deeper than the VCR. The CLR is divided into three sedimentary units, Unit 1, Unit 2 and

Unit 3. The Mponeng CLR Project area is dominated by Unit 3 with a smaller portion of Unit 2 towards the east. Unit 2 is a complex

channel deposit, and Unit 3 is the oldest of the CLR channel deposits and preserves the relatively lower values that can be contained

in the CLR.

Both the VCR and the CLR reefs have been subjected to faulting and are intruded by a series of igneous dykes and sills of various

ages that cross-cut the reefs. There is an inherent risk in mining through these faults and intrusives and a key objective of AngloGold

Ashanti mine geologists is to identify these geological features ahead of the working face to assist with deciding on the best practice

when approaching or mining through these structures.

Mining currently is focused on the eastern and western edges of the lease area above 120 Level. The risk to maintaining higher values

is increasing due to the erratic nature and poor preservation of VCR on the Elsburg and Booysens Footwall zones. The goal for the next

two years is to successfully predict and model the higher value trends where they exist in order to meet the demand of the business

plan. The below 120 Level ground is scheduled to mine the VCR on Kimberly footwall, which is better mineralised and of higher value

where VCR is preserved, however this will only start contributing to Mponeng production in two years' time.

EXPLORATION

Underground exploration targets are located within the current mining lease and the adjacent WUDLS area, which is a natural extension

to the current mining fronts accessing the deeper portions of the VCR and CLR mineral deposits.

The majority of the Mineral Resource within WUDLS lease area is classified as an Inferred Mineral Resource. The upgrading of this

ground was not possible in 2013 due to the poor drilling progress of the underground exploration holes. Below 120 Level drilling

platforms were delayed continually due to flooding and power supply problems. The surface drilling was partially successful with one

drill hole, UD51, intersecting the VCR at a depth of 3,837m below surface. This is the first VCR intersection in the central portion of the

WUDLS area and returned a grade of 3.65g/t over 20.7cm channel width.

For the exploration on the upper west side of the mine, the LIB intersected high volumes of flammable gas and underground fissure

water. The holes were delayed from progressing further and were stopped. The planned targets are to be re-accessed from different

platforms starting in early 2014.

Exploration of VCR on the south west portion of the lease ahead of the Phase 1 project in the west completed 3 new reef Intersections.

Drilling continues and will further confirm the geological model and current value trends on the Elsburg footwall zone. The CLR exploration programme was successful in 2013. Planned targets were intersected in the first half of 2013. The rest of the

platforms on 126 Level and on TauTona were not going to be ready in time so the targets schedule for CLR phase 2 was deferred to 2014.

The planned extension of Mponeng, through the phased deepening projects, will provide greater mining access to the CLR and

the VCR Mineral Resource. Exploration drilling from these newly-developed platforms will meet the demands for the project start-

up dates. Exploration drilling on both the CLR and the VCR will continue until the results have provided sufficient confidence in the

geological models.

MINERAL RESOURCE AND ORE RESERVE REPORT

2013

38

SOUTH AFRICA
39
SECTION FOUR
SECTION FIVE
SECTION SIX
SECTION THREE
SECTION TWO
SECTION ONE

MPONENG

continued

PROJECTS

The planned project phases will extract that portion of the Mineral Resource currently below infrastructure. The Phase 1 VCR project has

successfully accessed ground to 126 Level. In September 2013 phase 1 intersected the VCR reef on the 123 – 42 line approximately

3,405m below surface, the deepest at which VCR has ever been intersected. The phase 1 project is planned to be in full production

in January 2015. VCR will be mined at an average planned area of 20,000m² per month in phase 1 and will extend Mponeng's LOM

to 2032.

The Carbon Leader project Phase 2 will extract CLR south of the TauTona and Savuka mines from 123 and 126 Levels. During

2013 preparations for the shaft infrastructure was being done with the development of ramp design and the supporting on-level

infrastructure.

Future phases on VCR (Phase 3 and 5) and CLR (Phase 4 and 6) are being considered for economic studies and are dependent on

the progress from continued exploration work and design options considerations.

MINERAL RESOURCE

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

Type of drilling

Mine/Project

Category

Spacing

m (-x-)

Diamond

RC

Blast-hole

Channel

Other

Comments

Mponeng

Measured

5 x 5

_ 1

_

Underground chip sampling

Indicated

100 x 100

_

_

Underground drilling

Inferred

1,000 x 1,000

-

Surface and underground drilling Grade/Ore Control See Measured category Inclusive Mineral Resource as at 31 December 2013 **Tonnes** Grade **Contained gold** Mponeng Category million g/t **Tonnes** Moz TauTona Ventersdorp Contact Reef Shaft Pillar Measured 0.49 17.40 8.47 0.27 Indicated 1.25 20.21 25.22 0.81 Inferred Total 1.73 19.42 33.69 1.08 Ventersdorp Contact Reef Above 109 Level Measured 5.53 10.97 60.68 1.95 Indicated 4.51

31.75 1.02 Inferred Total 10.04 9.21 92.43 2.97 Ventersdorp Contact Reef 109 to 120 Level Measured 3.48 20.51 71.43 2.30 Indicated 5.74 11.86 68.01 2.19 Inferred 0.66 3.84 2.54 0.08 Total 9.88 14.37 141.99 Ventersdorp Contact Reef Below 120 Level Measured 0.23 21.29 4.88 0.16 Indicated 10.45 15.78 164.94 5.30 Inferred 0.09 3.84 0.34 0.01 Total

15.80 170.17 5.47 Ventersdorp Contact Reef WUDLS Measured Indicated 2.53 15.67 39.67 1.28 Inferred 11.76 14.99 176.34 5.67 Total 14.29 15.11 216.01 6.94 MINERAL RESOURCE AND ORE RESERVE REPORT 2013

40

as at 31 December 2013 **Tonnes** Grade **Contained gold** Mponeng Category million g/t **Tonnes** Moz Ventersdorp Contact Reef Block 1 Measured 0.07 4.28 0.29 0.01 Indicated 2.99 4.18 12.52 0.40 Inferred Total 3.06 4.19 12.81 0.41 Ventersdorp Contact Reef Block 3 Measured 0.01 6.52 0.10 0.00 Indicated 5.00 5.97 29.85 0.96 Inferred Total 5.01 5.97

0.96 Ventersdorp Contact Reef Block 5 Measured 0.05 3.38 0.18 0.01 Indicated 1.60 6.17 9.85 0.32 Inferred Total 1.65 6.08 10.03 0.32 Ventersdorp Contact Reef Outside Project areas Measured 0.24 4.95 1.18 0.04 Indicated 7.36 3.96 29.13 0.94 Inferred Total 7.60 3.99 30.32 0.97 TauTona Carbon Leader Reef Shaft Pillar Measured 0.32 41.72 13.27 0.43 Indicated 1.10

45.61 1.47 Inferred Total 1.42 41.54 58.88 1.89 TauTona Carbon Leader Reef Eastern Block Measured Indicated 0.66 23.08 15.20 0.49 Inferred Total 0.66 23.08 15.20 Carbon Leader Reef Below 120 Level Measured Indicated 27.79 22.19 616.68 19.83 Inferred 7.97 20.39 162.60 5.23 Total

21.79 779.28 25.05 Carbon Leader Reef Savuka Measured 0.15 15.59 2.30 0.07 Indicated 2.40 17.29 41.45 1.33 Inferred Total 2.54 17.19 43.76 1.41 Mponeng Total 104.42 15.65 1,634.52 52.55 Exclusive Mineral Resource as at 31 December 2013 **Tonnes** Grade **Contained gold Mponeng** Category million g/t **Tonnes** Moz Measured 8.83 15.05 132.83 4.27 Indicated 38.38 14.02 537.96

Inferred 5.97 20.62 123.15

3.96

Mponeng

Total **53.18**

14.93

793.93

193.93 25.53

The current mining practice in the West Wits is to leave behind 35% to 50% of the Mineral Resource as stability pillars. This is done

to minimise the effects of seismicity on underground workings. Bracket pillars are also placed around igneous intrusives and other

geological structures to improve stability and to minimise risks associated with seismicity around these structures. All these pillars and

areas that mining cannot access are included in the Exclusive Mineral Resource.

Other areas of the Mineral Resource that do not form part of LOM fall under categories considered to be beyond infrastructure and

below the economic cut-off for the mine.

Inclusive Mineral Resource continued

41

SOUTH AFRICA

SECTION FOUR

SECTION FIVE

SECTION SIX

SECTION THREE

SECTION TWO

SECTION ONE

MPONENG

continued

Mineral Resource below infrastructure

as at 31 December 2013

Tonnes

Grade

Contained gold

Mponeng

Category

million

g/t

Tonnes

Moz

Measured

Indicated

30.32

21.65

656.35

21.10

Inferred

19.74

17.17

338.94

10.90

Mponeng

Total

50.06

19.88

995.29

32.00

50.82

-0.46

-0.78

-0.38

1.31

0.00

2.05

0.00

52.55

Ounces

(millions)

53.0

52.5

52.0

51.5

51.0

50.0 49.5 49.0 48.5 2012 Depletion Gold price Cost Exploration Methodology Other Acquisition/ Disposal 2013 **Mponeng Mineral Resource reconciliation: 2012 to 2013** 13.81 -0.36 -0.04 0.00 0.00 1.17 0.00 0.00 14.57 Ounces (millions) 14.6 14.4 14.2 14.0 13.8 13.6 13.4 13.2 2012 Other 2013 **Mponeng** Ore Reserve reconciliation: 2012 to 2013 Depletion Model change **Economics** New

ounces

from **Projects** Scope Change Acquisition/ Disposal Dykes Ventersdorp Lava VCR Reef Elsburgs Quartzites Dennys Quartzites Kimberley Quartzites **Booysens Shales** Krugersdorp Quartzites Luipaardsvlei Quartzites Randfontein Quartzites -3,700 -3,750 -3,800 0 500 1,000 1,500 **SECTION THROUGH 123 LEVEL** E W Mponeng Gold Mine Phase 1 below 120 Ventersdorp Contact Reef MINERAL RESOURCE AND ORE RESERVE REPORT

2013 42

ORE RESERVE Ore Reserve as at 31 December 2013 **Tonnes** Grade **Contained gold Mponeng** Category million g/t Tonnes Moz Ventersdorp Contact Reef Proved 0.48 6.11 2.90 0.09 Above 109 Level Probable 0.52 7.18 3.77 0.12 Total 1.00 6.67 6.67 0.21 Ventersdorp Contact Reef Proved 1.73 9.19 15.90 0.51 109 to 120 Level Probable 5.04 5.62 28.34 0.91 Total 6.77 6.53 44.25 1.42

Ventersdorp Contact Reef

Proved 0.40 10.26 4.13

0.13 Below 120 Level Probable 10.42 8.06 84.00 2.70 Total 10.82 8.14 88.13 2.83 TauTona Carbon Leader Reef Proved Eastern Block Probable 1.06 11.74 12.40 0.40 Total 1.06 11.74 12.40 0.40 Carbon Leader Reef Below 120 Level Proved Probable 23.31 12.13 282.63 9.09 Total 23.31 12.13 282.63 9.09 Carbon Leader Savuka Proved 0.19 7.90 1.50

Probable 2.27 7.70 17.48 0.56 Total 2.46 7.72 18.99 0.61 Mponeng Total 45.42 9.98 453.07 14.57 Ore Reserve modifying factors as at 31 December 2013 **Mponeng** Gold price ZAR/kg **Cut-off** value g/t Au **Cut-off** value cm.g/t Au **Stoping** width cm **Dilution** % **Diluted** grade **MCF** % **MetRF** Carbon Leader Reef Savuka 360,252 6.25 750 120.0 48.3 7.22 81.0 98.3 Carbon Leader Reef Below 120 Level

360,252 7.14 750 105.0 42.2 8.84 81.0 98.4 TauTona Carbon Leader Reef Eastern Block 360,252 6.49 750 115.5 49.1 11.34 81.6 98.4 Ventersdorp Contact Reef 109 to 120 Level 360,252 5.58 750 134.4 46.5 5.67 81.0 97.9 Ventersdorp Contact Reef Above 109 Level 360,252 5.69 750 131.9 46.2 5.73 80.9 98.0 Ventersdorp Contact Reef Below 120 Level 360,252 5.05 750 148.5 44.1 6.41 84.5 98.1 43 **SOUTH AFRICA SECTION FOUR**

SECTION FIVE SECTION SIX SECTION THREE SECTION TWO SECTION ONE

MPONENG continued 0 2 4 6 8 10 12 14 16 18 Tonnes above cut-off (millions) Average grade above cut-off (g/t) Cut-off grade (g/t) 28 26 24 22 20 18 16 14 12 110 100 90 80 70 60 50 40 30 Tonnes above cut-off Ave grade above cut-off **Mponeng Grade tonnage curve – Underground (metric)** Inferred Mineral Resource in business plan as at 31 December 2013 **Tonnes** million Grade **Contained gold Mponeng**

Tonnes Moz Comment

Carbon Leader Reef Below 120 Level 5.73 14.49 82.95 2.67 Carbon Leader Reef Phase 2, 4 and 6 - Inferred Mineral Resource included in business plan but not in Ore Reserve Total 5.73 14.49 82.95 2.67 The Inferred Mineral Resource was used for optimisation purposes and it forms part of the business plan, but it was not included in the Ore Reserve. These portions of the deposit are located in the WUDLS area below current infrastructure and that part of the CLR Mineral Resource that is to be included in the CLR phase 4 project. Ore Reserve below infrastructure as at 31 December 2013 **Tonnes** Grade **Contained gold Mponeng** Category million g/t **Tonnes** Moz Proved Probable 23.31 12.13 282.63 9.09 Mponeng Total 23.31 12.13 282.63 9.09 **COMPETENT PERSONS** Category

Competent Person Professional organisation

Membership

number

Relevant

experience

Qualification

Mineral Resource

Gareth Flitton

GSSA

964 758

10 years

BSc Hons (Geology)

GDE (Mineral Economics) WITS

Ore Reserve

Pieter Enslin

PLATO

PMS 0183

31 years

GDE (Mineral Economics) WITS

HND (Mineral Resource Management)

MSCC

MINERAL RESOURCE AND ORE RESERVE REPORT

2013

44

TAUTONA

LOCATION

TauTona (Savuka has formed part of TauTona operations since 2013), lies on the West Wits Line, just south of Carletonville in the

North West Province, about 70km southwest of Johannesburg. Mining at this operation takes place at depths ranging from 2,000m

to 3,640m. The mine has a three-shaft system.

The mine exploits the Carbon Leader Reef (CLR) at depths varying from 2,600m to 3,500m below datum. The Ventersdorp Contact

Reef (VCR), which is about 900m above the CLR, has largely been mined out and mining operations on the VCR horizon ceased in

2010 and 2013 at Savuka and TauTona mines respectively.

GEOLOGY

The CLR is the principal economic horizon at TauTona and the VCR is the secondary economic horizon. The CLR is located near

the base of the Johannesburg Subgroup, which forms part of the Central Rand Group. The Central Rand Group sediments are

unconformably overlain by the Klipriviersberg lavas and the VCR is developed at the interface between the Central Rand Group

sediment and the overlying lavas. The CLR and the VCR at TauTona are vertically separated by about 900m of shales and quartzites.

The CLR is a thin, on average 20cm thick, tabular, auriferous quartz pebble conglomerate and consists of three sedimentary facies

or units. Economically, the most important is Unit 1, which is present as a sheet-like deposit over the whole mine, although reef

development and grades tend to decrease very rapidly where Unit 1 overlies Unit 2. Unit 2 is a complex channel deposit that is only

present along the eastern-most limit of current mining at TauTona. The Unit 2 CLR may be over 2m thick. Unit 3 is preserved below

Unit 1 in the southern parts of TauTona and is the oldest of the CLR conglomerates.

45

SOUTH AFRICA

SECTION FOUR

SECTION FIVE

SECTION SIX

SECTION THREE

SECTION TWO

SECTION ONE

All production on the VCR at TauTona ceased in 2013, and no future mining has been planned on this reef horizon. The VCR is

comprised of a quartz pebble conglomerate (up to 2m thick) capping the top-most angular unconformity of the Witwatersrand

Supergroup. The topography of the VCR depositional area is uneven and the reef is draped over a series of slopes and forms terraces

at different elevations.

The CLR and VCR are cross-cut by faults and intrusive dykes that displace the reef horizons. The faulting, in conjunction with the

many intrusives that also intersect the deposit, is responsible for most of the risk inherent in deep-level gold mining, since seismicity is

associated with these geological features.

EXPLORATION

Savuka is a mature mine that is approaching the end of its productive life. No exploration is currently taking place at this operation and

any un-mined ground will be re-allocated to surrounding mines.

No further exploration drilling has been planned for 2014.

PROJECTS

No projects are currently being undertaken at Savuka as it is approaching the end of its productive life.

At TauTona a project was initiated to drill a series of long holes from 112 Level to explore the ground south of the Pretorius Fault Zone.

The programme was abandoned mid 2012 due to methane intersections. The programme will continue with shorter geological drill

holes south of the Pretorius to investigate the lateral movement of this geological structure and the implications thereof. Information

on the different intrusions, age relationships and characteristics of geological features are required to determine the geotechnical

properties of this area.

AngloGold Ashanti Technology and Innovation Consortium (ATIC) Reef Boring Project

Two blocks of ground in the WW were identified on 97 Level, where the ATIC Project will focus on improving the mine design and

planning, with a view towards increasing productivity, improving gold recovery and improving safety.

Block nine, the current test site, is proving the reef boring theory to mine all the gold, only the gold, all the time.

AngloGold Ashanti Technology and Innovation Consortium (ATIC) Geological Drilling Project

Orebody knowledge and exploration plays a critical part in the exploitation of a mineralised deposit. Testing of alternative drilling

technology on 75 Level seeks to improve current planning practices and will be essential in the application of mechanical reef mining.

The trial will direct the geological drilling strategy going forward with two options envisaged:

- a) Favourable results Trial continues but with alterations and design modifications to the machine and auxiliary equipment.
- b) Unfavourable results Alternative drilling methods will be tested.

MINERAL RESOURCE

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

Type of drilling

Mine/Project

Category

Spacing

m (-x-)

Diamond

RC

Blast-hole Channel Other **Comments** TauTona Measured 5 x 5 Underground chip sampling Indicated 100 x 100 Underground drilling Inferred 1,000 x 1,000 Surface drilling Grade/Ore Control See Measured category **TAUTONA** continued MINERAL RESOURCE AND ORE RESERVE REPORT

2013 46

Inclusive Mineral Resource as at 31 December 2013 **Tonnes** Grade **Contained gold** TauTona Category million g/t Tonnes Moz East of the Bank Between 100 & 112 Levels Measured 0.53 28.36 14.99 0.48 Indicated 1.77 23.66 41.77 1.34 Inferred Total 2.29 24.74 56.77 1.83 Carbon Leader Reef - 1C11 Measured 0.15 20.76 3.11 0.10 Indicated 0.12 26.20 3.21 0.10 Inferred Total

0.27 23.21

6.31 0.20 Carbon Leader Reef Base Measured 1.04 25.97 26.91 0.87 Indicated 1.07 32.78 35.13 1.13 Inferred Total 2.11 29.43 62.04 1.99 Savuka Carbon Leader Reef Measured 0.44 17.01 7.47 0.24 Indicated 0.27 22.41 6.15 0.20 Inferred Total 0.71 19.09 13.62 0.44 TauTona Total 5.39 25.75 138.75 4.46

Exclusive Mineral Resource

as at 31 December 2013 **Tonnes** Grade **Contained gold TauTona** Category million g/t **Tonnes** Moz Measured 1.75 23.84 41.60 1.34 Indicated 1.31 30.77 40.24 1.29 Inferred TauTona Total 3.05 26.81 81.85 2.63 At TauTona the Exclusive Mineral Resource is defined by mining strategy, and additional Mineral Resource is expected to be taken up in safety, boundary and remnant pillars ahead of current mining. Mineral Resource below infrastructure There is no Mineral Resource reported below infrastructure. 4.69 -0.30 0.00 -0.00 0.04 -0.16 0.19 0.00 4.46 Ounces millions) 4.70 4.60 4.50

4.40

4.30 4.20 2012 Depletion Gold price Cost Exploration Methodology Other Acquisition/ Disposal 2013 **TauTona** Mineral Resource reconciliation: 2012 to 2013 1.65 -0.20 -0.270.00 0.00 0.20 0.00 0.00 1.39 Ounces (millions) 1.65 1.60 1.55 1.50 1.45 1.40 1.35 1.30 1.25 1.20 1.15 1.10 2012 Other 2013 **TauTona** Ore Reserve reconciliation: 2012 to 2013 Depletion Model change

Economics

New

ounces

from

Projects

Scope

Change

Acquisition/

Disposal

47

SOUTH AFRICA

SECTION FOUR

SECTION FIVE

SECTION SIX

SECTION THREE

SECTION TWO

SECTION ONE

TAUTONA continued ORE RESERVE Ore Reserve as at 31 December 2013 **Tonnes** Grade **Contained gold TauTona** Category million g/t **Tonnes** Moz East of the Bank Between Proved 0.16 9.77 1.60 0.05 100 & 112 Levels Probable 1.29 8.89 11.44 0.37 Total 1.45 8.99 13.03 0.42 Carbon Leader Reef - 1C11 Proved 0.01 6.91 0.05 0.00 Probable 0.06 9.26 0.55 0.02 Total 0.07 8.98 0.61 0.02 Carbon Leader Reef Base Proved 0.37

9.85

3.66 0.12 Probable 2.74 9.08 24.83 0.80 Total 3.11 9.17 28.50 0.92 Savuka Carbon Leader Reef Proved 0.08 6.55 0.53 0.02 Probable 0.06 8.78 0.51 0.02 Total 0.14 7.49 1.04 0.03 TauTona Total 4.76 9.06 43.18 1.39 a serious risk to the economic viability of TauTona's Ore Reserves. In order to mitigate this risk the Covalent Water Company

The closure of Blyvooruitzicht in 2013, and their subsequent inability to continue with groundwater pumping, presents

was established

in order to assume pumping at source at their No. 4 and 6 shafts (previously Blyvooruitzicht No. 4 and No. 6 shaft). Although the

Covalent Water Company will be responsible to handle the bulk of the underground water from Blyvooruitzicht mine, around 8Ml/day

of underground water will build up within the workings of Blyvooruitzicht mine's No. 5 shaft after which it will flow through the workings

to Savuka. Savuka currently does not have the facilities to pump this water to surface and as a result an underground pipeline from

Savuka to TauTona was established in order to pump the water from Savuka to TauTona from where it can be pumped to surface.

Although all the mitigating actions are already in place, the water level at Blyvooruitzicht No. 5 shaft has not yet reached the point

where the water will flow to Savuka.

2.98 -0.05 0.00 -0.83 0.07 0.40 -2.57 0.00 0.00 Ounces (millions) 3.0 2.5 2.0 1.5 1.0 0.5 0.0 2012 Depletion Gold price Cost Exploration Methodology Other Acquisition/ Disposal 2013 Savuka **Mineral Resource reconciliation: 2012 to 2013** 0.54 -0.03 0.00 0.00 0.00 -0.51 0.00 0.00 0.00 Ounces (millions) 0.6 0.5 0.4 0.3 0.2

0.1

0.0

2012

Other

2013

Savuka

Ore Reserve reconciliation: 2012 to 2013

Deple-

tion

Model

change

Economics

New

ounces

from

Projects

Scope

Change

Acquisition/

Disposal

MINERAL RESOURCE AND ORE RESERVE REPORT

2013

Ore Reserve modifying factors as at 31 December 2013 **TauTona** Gold price ZAR/kg **Cut-off** value **Cut-off** value cm.g/t Au **Stoping** width cm **Dilution** % **Diluted** grade **MCF** % **MetRF** Carbon Leader Reef 1C11 360,252 8.58 900 120.0 57.7 8.98 71.8 97.3 Carbon Leader Reef Base 360,252 8.58 900 105.0 63.0 9.17 71.8 97.3 East of the Bank Between 100 & 112 Levels 360,252 8.58 900 105.0

63.0 8.99 71.8 97.3

Savuka Carbon Leader Reef 360,252 7.83 900 115.0 54.5 7.49 65.0 97.3 Inferred Mineral Resource in business plan No planning or scheduling took place in material classified as Inferred Mineral Resource during the planning process. Ore Reserve below infrastructure There is no Ore Reserve reported below infrastructure. **COMPETENT PERSONS** Category **Competent Person Professional** organisation **Membership** number Relevant experience Qualification Mineral Resource Michelle Pienaar **GSSA** 967 796 13 years BSc Hons (Geology) Ore Reserve Joey Modise **PLATO** MS 0113 26 years Government Certificate of Competency in Mine Survey HND (Mineral Resource Management) 0 2 4 6 8 12 10 14 16 18 20

Tonnes above cut-off (millions) Average grade above cut-off (g/t) Cut-off grade (g/t) 34 32 30 28 26 24 5.5 5.0 4.5 4.0 3.5 3.0 2.5 2.0 1.5 Tonnes above cut-off Ave grade above cut-off **TauTona Grade tonnage curve – Underground (metric)** 49 **SOUTH AFRICA SECTION FOUR SECTION FIVE SECTION SIX** SECTION THREE

SECTION TWO SECTION ONE

OVERVIEW

Surface operations in South Africa produce gold by treating lower-grade surface material such as waste rock dumps and the re-treatment

of tailings storage facilities (TSF). Surface operations comprise Vaal River Surface, West Wits Surface and Mine Waste Solutions (MWS). In

Vaal River the Kopanang, West and Mispah Gold Plants are dedicated Surface Operations plants, while the Noligwa gold plant and South

uranium plant circuit process reef material for extraction of gold and uranium. Waste rock dump material is processed in the Noligwa gold

plant (Vaal River), Mponeng and Savuka gold plants (West Wits) when mills are not filled to capacity with reef material.

AngloGold Ashanti acquired the MWS tailings retreatment operation in the Vaal River region in July 2012. The MWS tailings dams are

scattered over an area that stretches approximately 13.5km north-south and 14km east-west. The MWS Mineral Resource comprises

TSFs that originated from the processing of material from the Buffelsfontein, Hartebeestfontein and the Stilfontein gold mines. MWS

comprises three separate gold plants namely Stream 1, Stream 2 and Stream 3. Hydraulically-reclaimed material from several TSFs

are delivered to the three plants for gold extraction. Since August 2013 the Sulphur Paydam (a TSF previously processed at Vaal River

East Gold Plant) was transferred to MWS.

LOCATION

The Vaal River Surface Operations are located immediately to the north and south of the Vaal River, close to the town of Orkney in the

North West Province of South Africa. These operations extract gold from the waste rock dumps material emanating from the mining

and processing of the Vaal Reef (VR) and Ventersdorp Contact Reef (VCR) mined at the Vaal River mines. The majority of surface gold

produced is from the processing of waste rock dump material, as well as from the reclamation of TSFs and a small contribution from

by-product gold from the rehabilitation of surface areas. The rehabilitation is in line with our commitment to care for the environment.

The MWS operation is located approximately 8km from the town of Klerksdorp near Stilfontein within 20km of the Vaal River Surface

operations.

The West Wits Surface Operations are located on the West Wits Line, near the town of Carletonville, across the border between the

North West and Gauteng Provinces in South Africa. These operations process waste rock dump material sourced from the mining and

processing of the Carbon Leader Reef (CLR) and the VCR mined at the West Wits mines in the Carletonville/Fochville area.

WASTE ROCK DUMPS

The waste rock dumps have been built from waste rock mined from underground workings; hoisted, transported and deposited via

conveyor belt. The gold contained within these dumps was sourced from three areas:

minor reefs that were developed in order to access the primary reef;

gold-bearing reefs that were contained within small fault blocks that were exposed by off-reef development; and

cross-tramming of gold-bearing reef material to the waste tips.

During 2013 the Great Noligwa waste rock dump had reached its end of life and in line with the environmental rehabilitation practice,

footprint cleaning has commenced in the year's fourth quarter. Footprint cleanup of the No. 7 waste rock dump in Vaal River

commenced late 2013 and it is foreseen that the cleanup will continue in 2014.

TAILINGS STORAGE FACILITIES

The tailings dams are made up of tailings material which originated from the processing of the underground ore from the Orkney gold

mines (VR Surface) and Buffels and Stilfontein gold mines (MWS). These gold mines are deep-level gold mines, which predominantly

extract the tabular, conglomeritic VR. The VR has been predominantly mined for gold in the past although the reef contains both gold

and uranium oxide.

The material contained in the tailings dams is generally fine in nature. The footprints of the MWS tailings dams and Vaal River Surface

Operations tailings dams cover an area of approximately 1,100ha.

The West Wits tailings are not planned for processing in the current business plan, but this remains an opportunity and will be re-

evaluated in the future.

SURFACE OPERATIONS

MINERAL RESOURCE AND ORE RESERVE REPORT

2013

RECLAMATION METHODOLOGY

Waste rock dump

Bulldozers are used to create furrows through the waste rock material in order to blend the rock. The material is then loaded onto rail

hoppers by means of a front-end loader and transported to the relevant gold plants for processing.

Tailings storage facilities

The tailings are recovered using a number of monitoring guns situated in strategic positions. The extraction process utilises the

monitoring guns to deliver water at pressure, typically 30 bar, to the face. The tailings are then effectively blasted from the high wall by

the pressurised water from the monitoring gun nozzle. These guns can be positioned to mine the selected bench top-to-bottom or

bottom-to-top. Bench heights are basically constrained by the force delivered from the nozzle. With sufficient pressure, face lengths

of up to 25m can be managed.

The reclamation strategy is aimed at mining the higher-grade dams first. The pump stations are located at the lowest point of the dams

to ensure that the slurry from the dams will flow towards the pump station from where the slurry will be pumped to the processing

plant. To access the high-grade areas first, trenches will be mined through the lower-grade dams to the higher grade dams. Slurry from

the dams will flow through these trenches to the slurry pump station.

ENVIRONMENTAL REHABILITATION

Rehabilitation work is ongoing and gold is produced from cleaning-up operations at Vaal River where material was treated through the

archive mill at East Gold Plant until July 2013. Since the closure of the East Gold Plant, this material is now processed at Kopanang

Gold Plant.

PROJECTS AND GROWTH

Treatment of the Vaal River TSF, Sulphur Paydam, commenced at MWS in May 2013. Subsequently treatment of TSF Mineral Resource

at Vaal River ceased as of July 2013. Design of a new pump station for reclaiming the Vaal River East TSF to the MWS circuit is in

progress with the pump station required to commence operation by June 2014.

Initiatives to sustain margins include projects to improve logistics and reduce costs. The projects will receive focus in early 2014.

51

SOUTH AFRICA

SECTION FOUR

SECTION FIVE

SECTION SIX

SECTION THREE

SECTION TWO

SECTION ONE

SURFACE OPERATIONS continued MINERAL RESOURCE Inclusive Mineral Resource as at 31 December 2013 **Tonnes** Grade **Contained gold Vaal River Surface** Category million g/t **Tonnes** Moz Tailings storage facilities Measured Indicated 454.65 0.27 123.55 3.97 Inferred Total 454.65 0.27 123.55 3.97 Waste rock dump Measured Indicated 35.65 0.48 17.27 0.56 Inferred 4.45 0.69

3.06 0.10

Total 40.10 0.51 20.33 0.65 **West Wits Surface** Tailings storage facilities Measured Indicated 178.73 0.24 43.57 1.40 Inferred Total 178.73 0.24 43.57 1.40 Waste rock dump Measured Indicated 11.35 0.53 6.00 0.19 Inferred Total 11.35 0.53 6.00 0.19 **Mine Waste Solutions**

Tailings storage facilities

Measured

142.43 0.22 31.18 1.00 Indicated 162.02 0.24 39.04 1.26 Inferred 15.51 0.30 4.62 0.15 Total 319.96 0.23 74.84 2.41 **Surface Operations** Total 1,004.79 0.27 268.29 8.63 Exclusive Mineral Resource as at 31 December 2013 **Tonnes** Grade **Contained gold West Wits Surface** Category million g/t **Tonnes** Moz Measured 0 0 0 0 Indicated 178.93 0.24 43.83 1.41 Inferred 0 0

Edgar Filing: ANGLOGOLD ASHANTI LTD - Form 6-K Total 178.93 0.24 43.83 1.41 **Mine Waste Solutions** Measured 0 0 0 Indicated 1.00 0.31 0.31 0.01 Inferred 0.34 0.30 0.10 0.00 Total 1.33 0.31 0.41 0.01 **Surface Operations** Total 180.27 0.25 44.24 1.42

The Exclusive Mineral Resource includes a small portion of MWS and the majority of West Wits Surface operations' TSF Mineral Resource.

MINERAL RESOURCE AND ORE RESERVE REPORT

2013

4.76 -0.16 0.00 0.00 -0.04 0.06 0.00 0.00 4.63 Ounces (millions) 4.76 4.72 4.68 4.64 4.60 4.56 4.52 2012 Depletion Gold price Cost Exploration Methodology Other Acquisition/ Disposal 2013 **Vaal River Surface Mineral Resource reconciliation: 2012 to 2013** 4.65 -0.15 -0.06 0.00 0.00 0.00 0.02 0.00 4.46 Ounces (millions) 4.65 4.60 4.55 4.50

4.45 4.40 4.35

2012

Other

2013

Vaal River Surface

Ore Reserve reconciliation: 2012 to 2013

Deple-

tion

Model

change

Economics

New

ounces

from

Projects

Scope

Change

Acquisition/

Disposal

1.57

-0.02

0.00

0.00

0.01

0.02

0.00

0.00

1.59

Ounces

(millions)

1.595

1.585

1.575

1.565

1.555

1.545

2012

Depletion

Gold

price

Cost

Explo-

ration

Metho-

dology

Other

Acquisition/

Disposal

2013

West Wits Surface

Mineral Resource reconciliation: 2012 to 2013 0.17 -0.02 0.01 0.00 0.00 0.03 -0.00 0.00 0.18 Ounces (millions) 0.190 0.185 0.180 0.175 0.170 0.165 0.160 0.155 0.150 0.145 2012 Other 2013 **West Wits Surface** Ore Reserve reconciliation: 2012 to 2013 Depletion Model change **Economics** New ounces from **Projects** Scope Change Acquisition/ Disposal 2.58 -0.20 0.00 0.00 0.00 0.01 0.02

0.00 2.41 Ounces (millions)

2.60 2.55 2.50 2.45 2.40 2.35 2.30 2012 Depletion Gold price Cost Exploration Methodology Other Acquisition/ Disposal 2013 **Mine Waste Solutions** Mineral Resource reconciliation: 2012 to 2013 2.35 -0.20 0.00 0.00 0.00 0.10 -0.00 0.00 2.25 Ounces (millions) 2.35 2.30 2.25 2.20 2.15 2.10 2.05 2012 Other 2013 **Mine Waste Solutions** Ore Reserve reconciliation: 2012 to 2013 Depletion Model change

Economics

New

ounces

from

Projects

Scope

Change

Acquisition/

Disposal

53

SOUTH AFRICA

SECTION FOUR

SECTION FIVE

SECTION SIX

SECTION THREE

SECTION TWO

SECTION ONE

SURFACE OPERATIONS continued **ORE RESERVE** Ore Reserve as at 31 December 2013 **Tonnes** Grade **Contained gold Vaal River Surface** Category million g/t **Tonnes** Moz Tailings storage facilities Proved Probable 454.65 0.27 123.55 3.97 Total 454.65 0.27 123.55 3.97 Waste rock dump Proved Probable 35.65 0.43 15.16 0.49 Total 35.65 0.43 15.16 0.49 **West Wits Surface** Waste rock dump Proved

_

Probable

11.15

0.51

5.73

0.18

Total

11.15

0.51

5.73

0.18

Mine Waste Solutions

Tailings storage facilities

Proved

142.43

0.22

31.18

1.00

Probable

161.02

0.24

38.74

1.25

Total

303.45

0.23

69.91

2.25

Surface Operations

Total

804.91

0.27

214.36

6.89

Ore Reserve modifying factors

as at 31 December 2013

Vaal River Surface

Gold

price

ZAR/kg

Cut-off

value

g/t Au

Dilution

%

Diluted

g/t

%

RMF

(based

on tonnes) % **RMF** (based on g/t) % **MRF** (based on tonnes) **MRF** (based on g/t) **MCF** % **MetRF** % Tailings storage facilities 360,252 0.18 100.0 100.0 100.0 100.0 100.0 57.6 Waste rock dump 360,252 0.40 100.0 88.0 100.0 100.0 100.0 89.0 **West Wits Surface** Waste rock dump 360,252 0.53 100.0 100.0 100.0

100.0

100.0 90.0 **Mine Waste Solutions** Tailings storage facilities 360,252 0.18 100.0 100.0 100.0 100.0 100.0 57.6 Inferred Mineral Resource in business plan as at 31 December 2013 **Tonnes** million Grade g/t **Contained gold Surface Operations Tonnes** Moz **Comment** Vaal River Surface Waste rock dump 4.45 0.62 2.76 0.09 No. 3 Waste rock dump part of BP2014 plan Mine Waste Solutions Tailings storage facilities 15.17 0.30 4.52 0.15 Inferred Mineral Resource Tailings storage facility material Total 19.62 0.37 7.28 0.23 MINERAL RESOURCE AND ORE RESERVE REPORT 2013

COMPETENT PERSONS

Category

Competent Person

Professional

organisation

Membership

number

Relevant

experience

Qualification

Mineral Resource

Raymond Orton

PLATO

MS 0132

27 years

GDE (Mineral Economics) WITS

Government Certificate of Competency

in Mine Survey

HND (Mineral Resource Management)

ND (Survey)

Ore Reserve

Mariaan Gagiano

SAIMM

705 920

29 years

Certificate of Competency: Assaying

55

SOUTH AFRICA

SECTION FOUR

SECTION FIVE

SECTION SIX

SECTION THREE

SECTION TWO

SECTION ONE

URANIUM

OVERVIEW

Uranium is produced at Vaal River by processing the reef material from Moab Khotsong, Great Noligwa and Kopanang in the Noligwa

gold plant/South Uranium plant circuit. The reef is milled at the Noligwa Gold Plant and processed at the South Uranium Plant for uranium

oxide extraction by the reverse leach process. Ammonium diuranate (ADU or 'yellow cake') is the final product of the South Uranium plant

and is transported to Nufcor (located in Gauteng) where the material is calcined and packed for shipment to the converters.

PROJECTS AND GROWTH

AngloGold Ashanti acquired the MWS tailings retreatment operation in the Vaal River region in July 2012. Currently the TSF material

is processed for extraction of gold; completion of the construction of the uranium circuit is in progress and it will be commissioned in

early 2014 for extraction of uranium from the TSF material.

Inclusive Mineral Resource by-product: Uranium (U308)

Tonnes

Grade

Contained uranium oxide

as at 31 December 2013

Category

million

kg/t

Tonnes Pounds million

Great Noligwa

Measured

_

_

Indicated

2.89

0.52

1,491

3.29

Inferred

0.05

0.48

26

0.06

Total

2.94

0.52

1,517

3.34

Kopanang

Measured

_

Indicated 13.96 0.63 8,771 19.34 Inferred 0.79 1.05 830 1.83 Total 14.75 0.65 9,601 21.17 Moab Khotsong Measured Indicated 23.71 0.82 19,412 42.80 Inferred 10.07 0.75 7,581 16.71 Total 33.79 0.80 26,993 59.51 Mponeng Measured 0.32 0.31 97 0.21 Indicated 32.09 0.29 9,339 20.59

Inferred 7.97 0.27

2,182 4.81 Total 40.38 0.29 11,618 25.61 TauTona Measured Indicated 5.39 0.30 1,612 3.55 Inferred Total 5.39 0.30 1,612 3.55 Vaal River Surface Measured Indicated 454.65 0.09 42,243 93.13 Inferred Total 454.65 0.09 42,243 93.13 West Wits Surface Measured

Indicated 178.73 0.07 12,809 28.24 Inferred Total 178.73 0.07 12,809 28.24 Mine Waste Solutions Measured 142.43 0.07 9,790 21.58 Indicated 162.02 0.08 12,907 28.46 Inferred 15.51 0.09 1,469 3.24 Total 319.96 0.08 24,166 53.28 Total Total 1,050.59 0.12 130,560 287.83 MINERAL RESOURCE AND ORE RESERVE REPORT 2013 **56**

Ore Reserve by-product: Uranium (U3O8) **Tonnes** Grade Contained uranium oxide as at 31 December 2013 Category million kg/t **Tonnes Pounds million** Great Noligwa Proved 1.48 0.28 413 0.91 Probable 0.35 0.26 90 0.20 Total 1.83 0.27 502 1.11 Kopanang Proved 2.19 0.35 768 1.69 Probable 4.59 0.35 1,591 3.51 Total 6.78 0.35 2,358 5.20 Moab Khotsong Proved 1.24 0.32

396

0.87

Probable

17.79

0.37

6,538

14.41 Total 19.04 0.36 6,934 15.29 Vaal River Surface Proved Probable 420.00 0.09 39,478 87.04 Total 420.00 0.09 39,478 87.04 Mine Waste Solutions Proved 5.39 0.09 489 1.08 Probable 109.52 0.07 8,135 17.94 Total 114.92 0.08 8,624 19.01 Total Total 562.58 0.10 57,897 127.64 57 **SOUTH AFRICA SECTION FOUR SECTION FIVE SECTION SIX SECTION THREE**

SECTION TWO

SECTION ONE

This section covers AngloGold Ashanti's nine mining operations and a development project in six countries within Continental Africa Region. $\mathsf{C}\mathsf{A}$

CONTINENTAL AFRICA

SECTION THREE

P58-117

MINERAL RESOURCE AND ORE RESERVE REPORT

OVERVIEW

OVERVIEW

AngloGold Ashanti has nine mining operations within Continental Africa Region: Kibali in the Democratic Republic of the Congo (DRC)

(production commenced in the 3rd quarter 2013); Iduapriem and Obuasi in Ghana; Siguiri in Guinea; Morila, Sadiola and Yatela in Mali;

Navachab in Namibia; and Geita in Tanzania. It also has the development project, Mongbwalu in the DRC.

As at 31 December 2013, the total attributable Mineral Resource (inclusive of the Ore Reserve) for the Continental Africa region was

69.06Moz (2012: 73.01Moz) and the attributable Ore Reserve, 24.41Moz (2012: 27.59Moz). This is equivalent to around 30% and

36% of the group's Mineral Resource and Ore Reserve respectively. Combined production from these operations totalled 1.46Moz of

gold in 2013, equivalent to 36% of group production.

Inclusive Mineral Resource

as at 31 December 2013

Tonnes

Grade

Contained gold

Continental Africa

Category

million

g/t

Tonnes

Moz

Measured

110.41

2.32

256.30

8.24

Indicated

475.62

2.52

1,197.92

38.51

Inferred

290.50

2.39

693.66

22.30

Total

876.52

2.45

2,147.88

69.06

Exclusive Mineral Resource

as at 31 December 2013

Tonnes

Grade

Contained gold

Continental Africa

Category million g/t **Tonnes** Moz Measured 22.89 3.68 84.32 2.71 Indicated 244.05 2.24 546.35 17.57 Inferred 289.56 2.39 691.73 22.24 Total 556.50 2.38 1,322.40 42.52 Ore Reserve as at 31 December 2013 **Tonnes** Grade **Contained gold Continental Africa** Category million g/t **Tonnes** Moz Proved 67.88 2.22 150.35 4.83 Probable 250.06 2.44

608.99 19.58 Total 317.93 2.39 759.34 24.41 Moz 35 30 25 20 15 10 5 0 December 2012 December 2013 **Continental Africa Inclusive Mineral Resource – attributable** Per operation/project Moz 9 8 7 6 5 4 3 2 0 December 2012 December 2013 **Continental Africa** Ore Reserve - attributable Per operation/project Management embarked on a careful review of the company's portfolio which led to the abandoning of a Mongbwalu development project. ** No more Ore Reserve being reported. Mining operations have ceased. 59 **CONTINENTAL AFRICA SECTION FOUR SECTION FIVE SECTION SIX**

SECTION THREE SECTION TWO SECTION ONE

COUNTRY OVERVIEW

AngloGold Ashanti owns 45% of Kibali and 86.2% of the Mongbwalu project in the Democratic Republic of Congo (DRC). Implementation

of the Mongbwalu project was suspended in 2013 while production commenced during the 3rd quarter of 2013 at Kibali.

Kibali

On 15 October 2009 AngloGold Ashanti acquired a 50% indirect interest in Moto Goldmines Ltd through a joint venture with Randgold

Resources Limited (Randgold). On 21 December 2009, Randgold and AngloGold Ashanti increased their joint venture interest in Kibali

to 90%, whilst Société Minière de Kilo-Moto (SOKIMO) retained a 10% holding.

The operation is a joint development between three separate groups:

•

AngloGold Ashanti;

.

Randgold, which is the operator, an African-focused gold mining and exploration business with primary listings on the London Stock

Exchange and Nasdaq; and

•

SOKIMO, the state-owned gold mining company.

The consolidated lease is made up of 10 mining concessions.

Mongbwalu

The Mongbwalu project is situated within the 5,487km2 permit covered by Concession 40 in the Ituri Province of north-eastern DRC.

Concession 40 has a rich history of gold occurrences and covers the entire Kilo Archaean granite-greenstone belt that extends

approximately 850km west-northwest of Lake Albert. The concession is held in a joint venture between AngloGold Goldfields Kilo

(AGK) and SOKIMO, a government body which currently holds a 13.8% non-contributory share. AGK is 86.2% owned by AngloGold

Ashanti. A feasibility study has been completed around the old Adidi mine as part of the agreement with the DRC government. During

2013 it was decided to halt the implementation of the project. The project is currently on hold.

MINERAL RESOURCE ESTIMATION

Mineral Resource estimation is undertaken by in-house competent persons or by approved external consultants. The results of both

diamond drilling (DD) and reverse circulation (RC) drilling are used in the estimation process. 3D mineralised envelopes are established

using both grade and geology and these are then statistically verified to confirm their validity for use in grade estimation. Appropriate

domaining of homogeneous zones is conducted whereby high-grade central core areas are modeled separately to the lower-grade

surrounding halos. Volumes are then filled with block model cells and these are then interpolated for density, rock type and grade, the

latter using Ordinary Kriging. Grade top cuts are applied to drill-hole data to prevent the spread of high grades during the estimation

process. Drill-hole spacing is used to guide the Mineral Resource classification according to requirements of the relevant reporting

codes. The open-pit Mineral Resource is quoted within a limiting shell and the underground Mineral Resource is quoted above a

specified cut off.

ORE RESERVE ESTIMATION

The Ore Reserve for Kibali has been based on the latest Mineral Resource model using Ordinary Kriging. High-grade domains (1.0-4.0g/t)

are commonly surrounded by a low-grade (+0.3g/t) halo.

The open-pit Ore Reserve shell optimisations were completed on the Mineral Resource model. This incorporated the mining layout,

operating factors, stripping ratio and relevant cut-off grade for the Ore Reserve. An open pit-underground interface was determined as

optimal at 5,685 mRL between the Karagba, Chauffeur and Durba deposit (KCD) open pit and underground mine.

A cut-off grade analysis at US\$1,000/ oz was used to determine a cut-off grade of 2.4g/t for the underground mine. Longitudinal

and transverse stoping methods with hydraulic and waste rock fill were chosen as the preferred mining method. Underground stope

designs were updated from the previously reported Ore Reserve using the Mineral Resource model. Modifying factors for planned and

unplanned rock dilution, backfill dilution and ore loss were applied to obtain the reported Ore Reserve. Metallurgical, environmental,

social, legal, marketing and economic factors were adequately considered in the Kibali feasibility study and have been updated as the

project has developed for the Ore Reserve to remain viable.

DRC

MINERAL RESOURCE AND ORE RESERVE REPORT

2013

KIBALI

LOCATION

Kibali is located in the north-eastern part of the Democratic Republic of the Congo (DRC) near the international borders with Uganda

and Sudan. The local office is located in the village of Doko, which is centrally located within the project area. Kibali is approximately

210km by road from Arua, on the Ugandan border and immediately north of the district capital of Watsa. The operations area falls

within the administrative district of Haut Uélé in Province Orientale. The town of Bunia, which is the United Nations controlled entry

point to north-eastern DRC, lies about 200km to the south of the project.

GEOLOGY

Kibali is located within the Moto Greenstone Belt, which consists of Archaean Kibalian volcano-sedimentary rocks and ironstone-

chert horizons that have been metamorphosed to greenschist facies. It is cut by regional scale north, east, northeast and northwest

trending faults and is bounded to the north by the Middle Archaean West Nile granite-gneiss complex and the south by the Upper

Zaire granitic complex.

The local geology consists of a volcano-sedimentary sequence comprising fine-grained sedimentary rocks, several varieties of

pyroclastic rocks, basaltic flow rocks, mafic-intermediate intrusions (dykes and sills) and intermediate-felsic intrusive rocks (stocks,

dykes and sills). This sequence is variably altered from slight to intense, such that in some cases the original lithology of the rock is

unrecognisable.

Several major mineralised trends have been outlined by soil geochemistry data and by the distribution of known gold mineralisation.

The Kibali-Durba-Karagba Trend and the Gorumbwa-Kombokolo Splay are anomalous with respect to gold endowment, and together

define a mineralised, northeast-striking 'mineralised corridor', 1.5km wide and 8km long. These corridors host the deposits of Kibali,

Sessenge, Gorumbwa, Karagba, Chauffeur and Durba and Pakaka.

The main Kibali deposit, which comprises the combination of Karagba, Chauffeur and Durba, is colloquially termed the KCD deposit

and hosts 73% of the grant's Mineral Resource and 82% of the Ore Reserve (both for open pit and underground mining options). The

next biggest deposit is Pakaka, which hosts some 6% of the Mineral Resource and 7% of the Ore Reserve. Currently only the KCD

deposit hosts an underground Ore Reserve and this constitutes 66% of the total KCD Ore Reserve.

Gold mineralisation is generally associated with structural features, resulting in tightly constrained zones which often host pods or

lenses of plunging mineralisation. Alteration is closely associated with the mineralisation and is typically carbonate-silica-albite with

minor sulphide.

EXPLORATION

A large amount of exploration was undertaken by the previous owners of the Kibali project, Moto Goldmines Ltd, and this was focused

primarily on the KCD deposit. Since the acquisition of the concession area by AngloGold Ashanti and Randgold, the dominant

exploration targets have been the KCD underground area and upgrading the confidence in the proposed KCD open pit.

During 2013

exploration was focused on Mengu Hill for confidence upgrades and ore extensions around the KCD deposit. Historical exploration

holes for Aerodrome, Rhino and Gorumbwa were reviewed and closer spaced infill holes were completed at Aerodrome to increase

confidence in the geological model. The advanced and infill grade control programme also identified additional ore tonnages.

PROJECTS

61

CONTINENTAL AFRICA

Additional oxide sources from Aerodrome, Rhino and Gorumbwa were investigated. Updated Mineral Resource models are in progress

for these projects. The mine plan has been reviewed to optimally incorporate the various ore sources.

classification

for these projects. The finite plan has been reviewed to optimally incorporate to
MINERAL RESOURCE
Details of average drill-hole spacing and type in relation to Mineral Resource
Type of drilling
Mine/Project
Category
Spacing
m (-x-)
Diamond
RC
Blast-hole Channel
Other
Comments
Kibali
Measured
5 x 10
_
-
_
_
-
Indicated
40 x 40
-
-
-
-
Inferred
80 x 80
-
-
-
-
Grade/Ore Control 5 x 10
-
-
-
-
_

SECTION FOUR SECTION FIVE SECTION SIX SECTION THREE SECTION TWO SECTION ONE

Inclusive Mineral Resource

as at 31 December 2013

Tonnes

Grade

Contained gold

Kibali

Category

million

g/t

Tonnes

Moz

Open pit

Measured

2.47

2.50

6.17

0.20

Indicated

36.39

2.08

75.81

2.44

Inferred

12.17

2.16

26.32

0.85

Total

51.03

2.12

108.29

3.48

Underground

Measured

_

Indicated

30.56

5.20

158.89

5.11

Inferred

13.83

3.10

42.86

1.38

Total

44.38

4.55

201.75 6.49 Kibali Total 95.41 3.25 310.04 9.97 Exclusive Mineral Resource as at 31 December 2013 **Tonnes** Grade **Contained gold** Kibali **Category** million g/t **Tonnes** Moz Measured 0.09 1.63 0.14 0.00 Indicated 27.63 2.62 72.41 2.33 Inferred 25.06 2.68 67.26 2.16 Kibali Total 52.78 2.65 139.81 4.50 The Exclusive Mineral Resource is primarily due to the gold price differential between the Mineral Resource and Ore Reserve. At the KCD deposit it is also partially due to the selection of a fixed interface between the open pit and the underground mining areas.

The Exclusive Mineral Resource makes up 45% of the total Mineral Resource. The Inferred Mineral Resource component forms a

significant part of this material. As part of wrapping up outstanding commitments under the original agreement with Sokimo, a deal

was reached to transfer a portion of ground south of the Kibali River which contains the Kibali South Inferred Mineral

Sokimo in settlement of the remaining obligations. This resulted in a reduction of the Inferred Mineral Resource.

Mineral Resource below infrastructure as at 31 December 2013

Tonnes

Grade

Contained gold

Kibali

Category

million

g/t Tonnes

Moz

Measured

Indicated

30.56

5.20

158.89

5.11

Inferred

13.83

3.10

42.86

1.38

Kibali

Total

44.38

4.55

201.75

6.49

8.50

-0.05

-0.17

0.36

1.87

-0.00

0.00

-0.55

9.97

Ounces

(millions)

11.0

10.5

10.0

9.5

9.0

8.5

8.0

7.5

2012 Depletion Gold price Cost Exploration Methodology Other Acquisition/ Disposal 2013 Kibali **Mineral Resource reconciliation: 2012 to 2013** 4.92 -0.05 0.29 0.00 0.00 0.00 0.00 0.00 5.17 Ounces (millions) 5.20 5.15 5.10 5.05 5.00 4.95 4.90 4.85 4.80 2012 Other 2013 Kibali Ore Reserve reconciliation: 2012 to 2013 Depletion Model change **Economics** New ounces from Projects

Scope

Change

Acquisition/

Disposal

KIBALI

continued

MINERAL RESOURCE AND ORE RESERVE REPORT

2013

Kibali Category million g/t **Tonnes** Moz Open pit Proved 2.43 2.36 5.71 0.18 Probable 17.54 2.49 43.65 1.40 Total 19.97 2.47 49.36 1.59 Underground Proved Probable 19.69 5.66 111.33 3.58 Total 19.69 5.66 111.33 3.58 Kibali Total 39.66 4.05 160.70 5.17 Ore Reserve modifying factors

ORE RESERVE
Ore Reserve

Contained gold

Tonnes Grade

as at 31 December 2013

as at 31 December 2013

Kibali

Gold

price

US\$/oz

Cut-off

value

g/t Au

Stoping

width

cm

Dilution

%

Dilution

g/t

%

RMF

(based

on

tonnes)

%

RMF

(based

on g/t)

%

MRF

(based

on

tonnes)

%

MRF

(based

on g/t)

MCF

%

MetRF

%

Open pit

1,000

0.90

_

10.0

100.0

100.0

100.0

100.0

100.0

100.0

84.5

Underground

1,000

2.40 2,000 2.7 1.00 100.0 100.0 100.0 100.0 100.0 88.9 * \$1,000 Ore Reserve price used by Randgold Resources Limited (operating partner). CONTINENTAL AFRICA **SECTION FOUR SECTION FIVE SECTION SIX SECTION THREE SECTION TWO SECTION ONE**

KIBALI

continued

Inferred Mineral Resource in business plan

There is no Inferred Mineral Resource included in the reported Ore Reserve for Kibali. The current mine plan does not have any reliance

on the Inferred Mineral Resource to support the economic viability of the project.

Ore Reserve below infrastructure

as at 31 December 2013

Tonnes

Grade

Contained gold

Kibali

Category

million

g/t

Tonnes

Moz

Proved

-

_

Probable

19.69

5.66

111.33

3.58

Kibali

Total

19.69

5.66

111.33

3.58

COMPETENT PERSONS

Category

Competent Person

Professional

organisation

Membership number

Relevant experience

Mineral Resource

Rodney Quick*

SACNASP

400014/05

20 years

Ore Reserve

* Employed by Randgold Resources Limited.

0

2

1

```
3
5
7
8
9
10
Tonnes above
cut-off (millions)
Average
grade above
cut-off (g/t)
Cut-off grade (g/t)
16
14
12
10
8
6
4
2
0
60
50
40
30
20
10
0
Tonnes above cut-off
Ave grade above cut-off
Kibali
Grade tonnage curve – Surface (metric)
0
1
2
3
4
5
6
7
8
9
10
Tonnes above
cut-off (millions)
Average
grade above
cut-off (g/t)
Cut-off grade (g/t)
```

Tonnes above cut-off Ave grade above cut-off Kibali **Grade tonnage curve – Underground (metric)** MINERAL RESOURCE AND ORE RESERVE REPORT

MONGBWALU

LOCATION

The Mongbwalu project covers an area of 396km2 which forms part of the larger Ashanti Goldfields Kilo (AGK) concession of

exploitation licences, totalling 5,487km2 in the Ituri province of the north-eastern DRC. Management embarked on a careful review

of the company's portfolio which led to the abandoning of a Mongbwalu development project. The district capital of Bunia lies to the

southwest of the concession area, some three hours by road from the project site. Bunia is approximately one hour's flight from the

nearest international airport at Kampala in Uganda.

GEOLOGY

The Mongbwalu project is located in the Kilo Archaean granite-greenstone belt, approximately 3,000km in area and situated 850km

west-northwest of Lake Albert. The Kibalian rocks have been divided into an upper and lower unit. The lower unit is dominated by

magnesium-rich tholeiitic basalts whilst the upper unit is dominated by schists, quartzites and banded iron formations. The relationship

between the upper and lower units appears to be conformable.

The oldest known rocks at Mongbwalu are basement gneisses which have been dated at more than 3,400 Ma. Granitoid rocks comprise

more than 80% of the area, which includes rafts of Kibalian rocks, intruded by diorites of variable mineralogy, dated at 2,651 Ma.

The Kilo Archaean granite-greenstone belt was part of the Tanzania shield but was separated by Late Proterozoic crustal mobilisation

and then by later rifting along the eastern Rift Valley system. The rocks have undergone regional metamorphism, ranging from upper

greenschist to lower amphibolite facies. During the formation of the east African rift system over the past 100 - 200Ma, north-south faults

formed, along which dolerite-lamprophyre dykes were intruded. There is also evidence of some younger faulting in the region. The area

has undergone weak lateritic weathering to shallow depths. Cover sequences are thin and are generally no greater than 1m thick.

65

CONTINENTAL AFRICA

SECTION FOUR

SECTION FIVE

SECTION SIX

SECTION THREE

SECTION TWO

SECTION ONE

MONGBWALU

continued

The mineralisation at Mongbwalu is hosted in an astomosing mylonite bodies of around 10 - 15m in width. These mylonite bodies

have been subdivided into three main blocks separated by the late north-south trending Nzebi and Adidi faults, which offset

mineralisation by up to 200m. The fault blocks are termed the Western, Central and Eastern blocks – hosting the Nzebi, Adidi and

Kanga mylonites respectively.

EXPLORATION

Consequent on the last model update in 2011, it was recommended to proceed with three phases of drilling to upgrade confidence

and to target extensions to the current Mineral Resource base.

A significant amount of drilling was completed during 2012 and early 2013 which has been incorporated into the current Mineral

Resource update. The 2012 drill campaign mainly focussed on infill drilling to improve the confidence of the Mineral Resource in the

Mongbwalu project area (around the old Adidi mine).

The current model update includes 242 new drillholes of which 152 are diamond core and 90 reverse circulation holes. PROJECTS

The interpretation of the high-grade mineralisation in this model was based on a geological re-logging exercise that identified three

relatively continuous mineralised quartz ore zones within the mylonite. These quartz zones were further refined in the current model

update, resulting in a thinner, more laterally continuous mineralised horizon.

MINERAL RESOURCE

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

Type of drilling

Mine/Project

Category

Spacing Spacing

m (-x-)

Diamond

RC

Blast-hole Channel

Other

Comments

Mongbwalu

Measured

_

-

Indicated

50 x 25

_

_

_

_

Inferred
100 x 100
_
_
_
Grade/Ore Control
_
_
_
_
_
Inclusive Mineral Resource
as at 31 December 2013
Tonnes
Grade
Contained gold
Mongbwalu
Category
million
g/t
Tonnes
Moz
Underground
Measured
_
Indicated
4.68
7.64
35.74
1.15
Inferred
5.56
7.65
42.58
1.37
Mongbwalu
Total
10.24
7.65
78.32
2.52
The Mongbwalu Mineral Resource is reported at a cut-off grade of 2.8g/t Au. The mineralisation has been classic

fied into Inferred Mineral

Resource and Indicated Mineral Resource and these represent a drill-hole spacing of 100m x 100m and 25m x 50m respectively. Due

to the fact that the development project has not advanced, all the Mineral Resource is exclusive and below infrastructure.

MINERAL RESOURCE AND ORE RESERVE REPORT

2013

2.06 0.00 0.00 0.00 0.46 0.00 0.00 0.00 2.52 Ounces (millions) 2.50 2.40 2.30 2.20 2.10 2.00 2012 Depletion Gold price Cost Exploration Methodology Other Acquisition/ Disposal 2013 Mongbwalu Mineral Resource reconciliation: 2012 to 2013 0 1 2 3 4 5 6 7 8 Tonnes above cut-off (millions) Average grade above cut-off (g/t) Cut-off grade (g/t)

12 10 8 6 4 2 30 25 20 15 10 5 0 Tonnes above cut-off Ave grade above cut-off Mongbwalu **Grade tonnage curve – Underground (metric) COMPETENT PERSONS** Category **Competent Person Professional** organisation **Membership** number Relevant experience Qualification Mineral Resource Vasu Govindsammy **SACNASP** 400086/04 17 years BSc (Stats) HND (Economic Geology) MSc (Mining Engineering) **67** CONTINENTAL AFRICA **SECTION FOUR SECTION FIVE SECTION SIX SECTION THREE SECTION TWO**

SECTION ONE

COUNTRY OVERVIEW

AngloGold Ashanti has two mines in Ghana: Obuasi, which has surface and underground operations, and Iduapriem, an open pit

mine. Obuasi and Iduapriem are both wholly owned by AngloGold Ashanti. Obuasi is located in the Ashanti region of southern Ghana,

approximately 80km south of Kumasi. It is primarily an underground mine operating at depths of up to 1,500m with a continuous

history of mining dating back to the 1890s. Iduapriem is located in western Ghana, some 85km from the coast and is currently an

open pit operation, although the options to mine underground may be considered in the future.

MINERAL RESOURCE ESTIMATION

Using the latest geological mapping, sampling and drilling Information, the relevant underground mineralisation wireframes are

updated on a monthly basis. Block models are estimated within the delineated mineralised ore zones using Ordinary Kriging. The

geological interpretation is based on diamond drill and cross-cut sampling information. Estimates are based on a block model

comprised of 20m x 5m x 15m blocks, which approximate the minimum selective mining unit (SMU).

Open pit mining commenced at the Sibi area of Obuasi in 2012 and was completed in 2013. The open pit Mineral Resource at both

Obuasi and Iduapriem were estimated by geostatistical techniques within 3D wireframe models of the mineralisation. These models

are based on geological information and cut-off boundaries defined by sampling results. Geological interpretation is based on trench

and reverse RC and/or DD drilling. Estimation is by Ordinary Kriging into 30m x 30m x 10m blocks.

Surface stockpiles volumes are based on surveys and grades based on historical sampling. Tailings are part of the Mineral Resource

with estimated tonnes and grades based on combinations of 3D block models of some dams and historical metallurgical discharge data.

ORE RESERVE ESTIMATION

The 3D Mineral Resource models are used as the basis for the Ore Reserve. A mineralisation envelope is developed using the Mineral

Resource block model, geological information and the relevant cut-off grade, which is then used for mine design. An appropriate

mining layout is designed that incorporates mining extraction losses and dilution factors.

Obuasi underground:

All mine designs are done using the Studio 5D-planner software package to delineate stopes by taking into consideration cut-off

grade, geotechnical design parameters for each mining block, mining level and section, usually leading to an extension to the existing

mining sequence, and corresponding development layouts. The underground operationally runs to a depth of 1,500m from surface.

Mining levels are at between 15 and 20m intervals with major levels between 30-60m intervals. Underground production is made up

of open stope mining (both longitudinal and transverse), and sub-levels caving methods.

Iduapriem open pit:

The Ore Reserve is estimated within mine designs based on modifying factors based on actual mining and detailed analysis of cut-

off grade, geotechnical, environmental, productivity considerations and the requirements of the mining fleet. The upper portions of

the Ajopa deposit have been discounted for the estimated depletion by artisanal miners. This discount factor has been derived from

observation and estimates based on the Mineral Resource model.

GHANA

MINERAL RESOURCE AND ORE RESERVE REPORT

2013

LOCATION

Iduapriem is located in the western region of Ghana, some 85km north of the coastal city of Takoradi and approximately 8km

southwest of the town of Tarkwa. Iduapriem is an open pit mine which commenced mining operations in 1992. Its processing facilities

include a 4.7 million tonnes per annum (Mtpa) carbon-in-pulp (CIP) plant with a gravity circuit. The gravity feed recovers about 30% of

the gold and the CIP plant recovers the remainder.

Iduapriem is bordered to the north by Gold Fields (Ghana) Ltd's Tarkwa Mine and to the east by Ghana Manganese Company (GMC)

- a manganese mine which has existed since the 1920s.

GEOLOGY

Iduapriem is located within the Tarkwaian Group of rocks that form part of the West Africa Craton which is covered to a large extent

by metavolcanics and metasediments of the Birimian Supergroup. In Ghana, the Birimian terrane consists of northeast/southwest

trending volcanic belts separated by sedimentary basins. The Tarkwaian Group was deposited in these basins as shallow water deltaic

sediments. The gold mineralisation at Iduapriem is hosted in the Proterozoic Banket Series conglomerates that were developed within

these sediments.

IDUAPRIEM

69

CONTINENTAL AFRICA

SECTION FOUR

SECTION FIVE

SECTION SIX

SECTION THREE

SECTION TWO

SECTION ONE

The Banket Reef Zone (BRZ) comprises a sequence of individual beds of quartz pebble conglomerate, breccia conglomerate, quartzite

and grit. The outcropping Banket Series in the mine lease area forms prominent curved ridges that extend southwards from Tarkwa,

westwards through Iduapriem and northwards towards Teberebie.

All known gold mineralisation within the Banket Series is associated with the conglomerates and is found within the matrix that binds

the pebbles together. The gold content is a function of the size and amount of packing of the quartz pebbles within the conglomeratic

units. At Iduapriem, the gold mineralisation is unrelated to metamorphic or hydrothermal alteration events and the gold is coarse

grained, particulate and free milling. Mineralogical studies indicate that the grain size of native gold particles ranges between 2µm and

500µm and averages 130µm. Sulphide mineralisation is present only at trace levels and is not associated with the gold. Haematite

mineralisation is often extremely well developed on cross bed foresets. The conglomerates often show strong haematite mineralisation

in the matrix with rare visible gold grains.

EXPLORATION

Surface exploration drilling to probe the down-dip extension of the Block 7&8 pit has been suspended due to budgetary constraints.

A comprehensive brownfield exploration programme is being put together to understand the true potential within the three leases of

the Iduapriem concession.

169 diamond holes totaling 43,535m was planned, including 22,195m RC pre-collar and 21,340m DD tail for Block 7&8 Mineral

Resource conversion.

Geological mapping was focused on Block 3W, Block 5 and Block 8 North.

Block 3W is situated on a geologically disturbed area, though the mineralisation is lithologically controlled, there are some major late

structures controlling them. It is again located at the hinge of the Tarkwa Synformal basin plunging approximately 50° northeast.

The structural mapping at Block 5 shows three mineralised conglomerate horizons (reefs) striking NNE (005°-030°) with average dip

of 35°-40°. However there are evidences of minor local faulting and some shearing. The conglomerates alternate with the barren

quartzite, this relationship however is also observed in the individual mineralised reefs.

Overturned folding has been interpreted at Block 8N, with the fold axis running parallel to the major fault of the area, and has surfaced

two of the reefs on the footwall.

MINERAL RESOURCE

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

Type of drilling

Mine/Project

Category

Spacing

m (-x-)

Diamond

RC

Blast-hole Channel

Other

Comments Iduapriem Measured 50 x 50, 50 x 75, 100 x 50 Indicated 50 x 75, 50 x 100, 100 x 75 Inferred 100 x 100 Grade/Ore Control 10 x 12, 10 x 15 **IDUAPRIEM** continued MINERAL RESOURCE AND ORE RESERVE REPORT **70**

Inclusive Mineral Resource as at 31 December 2013 **Tonnes** Grade **Contained gold** Iduapriem Category million g/t Tonnes Moz Ajopa Measured Indicated 9.01 1.70 15.32 0.49 Inferred 2.69 1.22 3.28 0.11 Total 11.71 1.59 18.60 0.60 Block 3W Measured Indicated 0.10 1.17 0.12 0.00 Inferred 3.11

1.49 4.63 0.15 Total 3.21 1.48

4.75 0.15 Block 5 Measured Indicated 0.02 1.01 0.02 0.00 Inferred 1.52 1.08 1.64 0.05 Total 1.54 1.08 1.65 0.05 Blocks 7 and 8 Measured 8.08 1.36 10.98 0.35 Indicated 49.44 1.65 81.47 2.62 Inferred 38.64 1.64 63.20 2.03 Total 96.15 1.62 155.65 5.00 Stockpile (Full Grade Ore) Measured 7.08 0.86 6.06 0.19

Indicated

Inferred Total 7.08 0.86 6.06 0.19 Stockpile (Other) Measured Indicated Inferred 21.00 0.49 10.35 0.33 Total 21.00 0.49 10.35 0.33 Stockpile (Marginal Ore) Measured 0.13 0.56 0.07 0.00 Indicated Inferred

Total 0.13 0.56 0.07 0.00 Iduapriem Total 140.82 1.40 197.14 6.34 Exclusive Mineral Resource as at 31 December 2013 **Tonnes** Grade **Contained gold Iduapriem** Category million g/t **Tonnes** Moz Measured 1.36 1.13 1.53 0.05 Indicated 27.75 1.57 43.52 1.40 Inferred 66.96 1.24 83.11 2.67 Iduapriem Total 96.06 1.33 128.16 4.12 The Exclusive Mineral Resource listed above is derived mainly from the following:

Inferred Mineral Resource located within the optimised Ore Reserve pit shell; and

Mineral Resource located outside the Ore Reserve shell but within the optimised Mineral Resource shell. This consists mainly of

down-dip extensions of the ore zones, most of which may be mineable at a higher gold price.

CONTINENTAL AFRICA SECTION FOUR SECTION FIVE SECTION SIX SECTION THREE SECTION TWO SECTION ONE

ORE RESERVE Ore Reserve as at 31 December 2013 **Tonnes** Grade **Contained gold** Iduapriem Category million g/t **Tonnes** Moz Ajopa Proved Probable 5.34 1.85 9.87 0.32 Total 5.34 1.85 9.87 0.32 Blocks 7 and 8 Proved 6.56 1.32 8.69 0.28 Probable 22.24 1.65 36.68 1.18 Total 28.79 1.58 45.36 Stockpile (Full Grade Ore) Proved 7.08 0.86 6.06

0.19 Probable Total 7.08 0.86 6.06 0.19 Iduapriem Total 41.22 1.49 61.29 1.97 Ore Reserve modifying factors as at 31 December 2013 **Iduapriem** Gold price US\$/oz **Cut-off** value g/t Au **Dilution** % **Dilution** g/t % **RMF** (based on tonnes) % **RMF** (based on g/t) % **MRF** (based on tonnes) % **MRF** (based on g/t)

MCF % MetRF % Ajopa

1,100 0.86 102.5 92.0 100.0 94.0 100.0 95.0 Blocks 7 and 8 1,100 0.76 104.0 97.0 100.0 94.0 100.0 95.0 **IDUAPRIEM** continued 6.62 -0.29 -0.31 0.00 0.07 0.19 0.06 0.00 6.34 Ounces (millions) 6.7 6.6 6.5 6.4 6.3 6.2 6.1 6.0 5.9 2012 Depletion Gold price Cost Explo-

ration

Methodology Other Acquisition/ Disposal 2013 **Iduapriem** Mineral Resource reconciliation: 2012 to 2013 2.21 -0.22 -0.05 0.00 0.00 0.03 0.00 0.00 1.97 Ounces (millions) 2.25 2.20 2.15 2.10 2.05 2.00 1.95 1.90 1.85 2012 Other 2013 **Iduapriem** Ore Reserve reconciliation: 2012 to 2013 Depletion Model change **Economics** New ounces from **Projects** Scope Change Acquisition/ Disposal MINERAL RESOURCE AND ORE RESERVE REPORT 2013

72

```
0.00
0.50
0.25
1.00
0.75
1.25
1.75
2.00
1.50
Tonnes above
cut-off (millions)
Average
grade
above
cut-off (g/t)
Cut-off grade (g/t)
2.4
2.2
2.0
1.8
1.6
1.4
80
70
60
50
40
30
20
10
Tonnes above cut-off
Ave grade above cut-off
Iduapriem
Grade tonnage curve – Surface (metric)
Inferred Mineral Resource in business plan
as at 31 December 2013
Tonnes
million
Grade
g/t
Contained gold
Iduapriem
Tonnes Moz
Comment
Ajopa
1.54
1.23
1.90
0.06
Grade control drilling will be done on every bench
```

(18 m) for better ore definition

(16 iii) for better ore definition
Blocks 7 and 8
2.88
1.44
4.13
0.13
Total
4.42
1.37
6.04
0.19
The Inferred Mineral Resource within the Ore Reserve design is 9% of the total ore scheduled (47.56Mt) and exists as
pockets of
Inferred Mineral Resource material located within the models of all the deposits.
COMPETENT PERSONS
Category
Competent Person
Professional
organisation
Membership
number
Relevant
experience
Qualification
Mineral Resource
Tebogo Mushi
SAIMM
702 438
10 years
BSc (Hons) Mining Engineering
GDE (Mineral Economics) WITS
Ore Reserve
Stephen Asante
Yamoah
MAusIMM
304 095
9 years
BSc (Hons) Mining Engineering
MSc (Mining Engineering)
73
CONTINENTAL AFRICA
SECTION FOUR
SECTION FIVE
SECTION SIX
SECTION THREE
SECTION TWO
SECTION ONE

LOCATION

Obuasi mine is located in the Ashanti Region of Ghana some 320km northwest of the capital Accra. The mine is situated in a largely

forested region, with surrounding land occupied by subsistence farmers. The mining concession covers an area of 47.5ha. Eighty

communities lie within a 30km radius of the mine. Obuasi mine employs sub-level open stoping and sub-level caring for extraction of

its mineable Ore Reserve.

GEOLOGY

The mine is located within the Obuasi concession area in south-western Ghana along the north easterly striking Ashanti volcanic

belt. The deposit is one of the most significant Proterozoic gold belts discovered to date. The Ashanti belt predominantly comprises

sedimentary and mafic volcanic rocks, and is the most prominent of the five Birimian Supergroup gold belts found in Ghana. The belt

is a 300km wrench fault system that propagated from Dixcove in the southwest to beyond Konongo in the northeast. The Birimian was deformed, metamorphosed and intruded by syn- and post-tectonic granitoids during the Eburnean tectonothermal

event around two billion years ago. Folding trends are dominantly north-northeast to northeast. Elongate syn-Birimian basins

developed between the ridges of the Birimian system and these were filled with the Tarkwaian molasse sediments made up primarily

of conglomerates, quartzose and arkosic sandstones and minor shale units. Major faulting has taken place along the same trends.

Gold mineralisation is associated with, and occurs within, graphite-chlorite-sericite fault zones. These shear zones are commonly

associated with pervasive silica, carbonate and sulphide hydrothermal alteration and occur in tightly-folded Lower Birimian schists,

phyllites meta-greywackes, and tuffs, along the eastern limb of the Kumasi anticlinorium.

OBUASI

MINERAL RESOURCE AND ORE RESERVE REPORT

2013

74

Mineralised shears are found in close proximity to the 'contact' with harder metamorphosed and metasomatically-altered intermediate

to basic upper Birimian volcanics. The competency contrast between the harder metavolcanic rocks to the east and the more

argillaceous rocks to the west is thought to have formed a plane of weakness. During crustal movement, this plane became a zone of

shearing and thrusting coeval with the compressional phases.

The Lower Birimian metasediments and metavolcanics are characterised and defined by argillaceous and fine to intermediate

arenaceous rocks. These rocks are represented by phyllites, meta siltstones, meta greywackes, tuffaceous sediments, ash tuffs

and hornstones in order of decreasing importance. Adjacent to the shear zones, these rocks are replaced by sericitic, chloritic and

carbonaceous schists, which may be graphitic in places. Multiple lodes are a common feature in the mine.

Granites outcrop in the west and northwest of the concession area and intrude the Birimian rocks only. Two types of granite are

present, one is very resistant to weathering than the other, the less resistant granite is prospective for gold mineralisation.

Two main ore types are mined namely, quartz vein and sulphide ore. The quartz vein type consists mainly of quartz with free gold

in association with lesser amounts of various metal sulphides containing iron, zinc, lead and copper. This ore type is generally non-

refractory. Sulphide ore is characterised by the inclusion of gold in the crystal structure of arsenopyrite minerals.

Higher gold grades

tend to be associated with finer grain arsenopyrite crystals. Sulphide ore is generally refractory.

EXPLORATION

Surface exploration

Three holes with total depth of 775m were drilled at Gyabunsu.

Underground exploration

Underground exploration during 2013 focused on Sansu 3 project area above 50 Level. The objective of the drilling programme was to

upgrade the Inferred Mineral Resource within the Sansu 3 block of quartz and sulphide mineralisation to Indicated Mineral Resource.

Ten holes with total depth of 3,421m were completed.

PROJECTS

Mining method

The mining method at Obuasi is being changed from transverse and longitudinal open stoping to longitudinal retreat mining in mining

blocks where it is suitable to do so. The major advantage of this method is the up to 50% reduction in waste development; reducing

capital expenditure along with additional reef drive exposure.

Sansu bypass decline project

The bypass decline became a necessity after the wall failure in the Sansu Open pit in January 2013 required closure of the old Sansu

Portal. Development of 590m (dimensions 5.0m x 5.0m) decline holed into 7 Level on 22 September 2013 as planned. Obuasi deeps decline project

Following an extensive review, AngloGold Ashanti embarked on a process to modernise its Obuasi mine and reverse a long trend of

declining production and rising costs. This project is focused on the development of a new decline roadway system from surface to

by-pass aged infrastructure and more efficiently access the upper ore zones, some of which are not currently in the mine plan and

the deeper, higher-grade areas of the orebody to allow for additional ore extraction to meet the 2016 production targets. The project

is expected to complete by 2016.

75

CONTINENTAL AFRICA

SECTION FOUR

SECTION FIVE

SECTION SIX

SECTION THREE

SECTION TWO

SECTION ONE

MINERAL RESOURCE

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

Type of drilling

Mine/Project

Category

Spacing

m (-x-)

Diamond

RC

Blast-hole Channel

Other

Comments

Obuasi

Measured

20 x 20,

40 x 20,

50 x 50

Percussion drilling for

open pits.

Indicated

30 x 30,

50 x 50,

60 x 60

Percussion drilling for open pits and discharge sampling for tailings.

Inferred

90 x 90,

100 x 100,

120 x 120

Percussion drilling for open pits and discharge sampling for tailings.

Grade/Ore Control

10 x 10

Channel sampling of cross cuts and definition drilling. Inclusive Mineral Resource

as at 31 December 2013

Tonnes

Grade

Contained gold

Obuasi

Category

million

g/t Tonnes Moz Anyankyirem Measured Indicated 5.53 2.37 13.14 0.42 Inferred 0.11 2.50 0.27 0.01 Total 5.64 2.38 13.41 0.43 Anyinam Measured 0.00 2.50 0.01 0.00 Indicated 0.45 3.54 1.59 0.05 Inferred 1.02 4.24 4.33 0.14 Total 1.47 4.02 5.93 0.19 Gyabunsu-Sibi Measured

0.05 4.00 0.21 0.01

Indicated 0.05 3.48 0.16 0.01 Inferred 0.28 3.97 1.13 0.04 Total 0.38 3.92 1.50 0.05 Tailings (Kokoteasua) Measured 3.22 1.97 6.33 0.20 Indicated 1.65 1.96 3.24 0.10 Inferred Total 4.87 1.96 9.57 0.31 Tailings (Pompora) Measured Indicated Inferred 33.61

1.5752.89

1.70 Total 33.61 1.57 52.89 1.70 Other Surface Resources Measured Indicated 1.09 2.50 2.72 0.09 Inferred Total 1.09 2.50 2.72 0.09 Upper Mine Measured 2.19 10.10 22.12 0.71 Indicated 2.49 7.67 19.09 0.61 Inferred 0.94 6.00 5.63 0.18 Total 5.62 8.34 46.85 1.51 **OBUASI** continued MINERAL RESOURCE AND ORE RESERVE REPORT

as at 31 December 2013

Tonnes

Grade

Contained gold

Obuasi

Category

million

g/t

Tonnes

Moz

Above 50 Base

Measured

20.64

7.30

150.73

4.85

Indicated

39.91

5.83

232.70

7.48

Inferred

23.68

6.32

149.66

4.81

Total

84.23

6.33

533.09

17.14

Adansi 50-60

Measured

2.16

5.28

11.38

0.37

Indicated

1.83

4.46

8.15

0.26

Inferred

6.54

5.03

32.89

1.06

Total

10.52

4.98

52.42

1.69 Stockpile (Heap Leach) Measured 1.08 0.58 0.63 0.02 Indicated Inferred Total 1.08 0.58 0.63 0.02 Stockpile (Surface Oxides) Measured 0.02 1.70 0.04 0.00 Indicated Inferred Total 0.02 1.70 0.04 0.00 KMS 50-60 Measured Indicated

3.53

18.67 65.96 2.12 Inferred 6.08 11.01 66.94 2.15 Total 9.61 13.82 132.90 4.27 Stockpile (Surface Sulphides) Measured 0.05 2.58 0.13 0.00 Indicated Inferred Total 0.05 2.58 0.13 0.00 Obuasi Total 158.20 5.39 852.07 27.39 77 **CONTINENTAL AFRICA SECTION FOUR SECTION FIVE SECTION SIX SECTION THREE SECTION TWO**

SECTION ONE

OBUASI continued Exclusive Mineral Resource as at 31 December 2013 **Tonnes** Grade **Contained gold Obuasi Category** million g/t **Tonnes** Moz Measured 8.31 8.98 74.64 2.40 Indicated 28.47 5.47 155.74 5.01 Inferred 72.26 4.34 313.74 10.09 Obuasi Total 109.04 4.99 544.12 The Obuasi Exclusive Mineral Resource is made up of Mineral Resource from underground, open pit and tailings. The bulk of the Exclusive Mineral Resource is from underground. Mineral Resource below infrastructure as at 31 December 2013 **Tonnes** Grade

Contained gold

Obuasi

Category

million

g/t

Tonnes

Moz

Measured

2.16

5.28

11.38

0.37

Indicated

5.36

13.82

74.11

2.38

Inferred

12.62

7.91

99.83

3.21

Obuasi

Total

20.13

9.20

185.32

5.96

29.82

-0.35

0.00

0.00

0.10

-2.18

0.00

0.00

27.39 Ounces

(millions)

30.0

29.5

29.0

28.5

28.0

27.5

27.0

26.5

2012

Deple-

tion

Gold

price

Cost

Explo-

ration

Metho-

dology

Other

Acquisition/

Disposal

2013

Obuasi

Mineral Resource reconciliation: 2012 to 2013 8.52 -0.21 -0.16 0.00 0.00 0.00 -0.00 -0.00 8.14 Ounces (millions) 8.55 8.50 8.45 8.40 8.35 8.30 8.25 8.20 8.15 8.10 8.05 2012 Other 2013 Obuasi Ore Reserve reconciliation: 2012 to 2013 Depletion Model change **Economics** New ounces from **Projects** Scope Change Acquisition/ Disposal

MINERAL RESOURCE AND ORE RESERVE REPORT

2013 78

ORE RESERVE Ore Reserve as at 31 December 2013 **Tonnes** Grade **Contained gold** Obuasi Category million g/t **Tonnes** Moz Tailings (Kokoteasua) Proved 1.75 1.96 3.45 0.11 Probable 3.12 1.96 6.12 0.20 Total 4.87 1.96 9.57 0.31 Tailings (Pompora) Proved Probable 1.09 2.10 2.29 0.07 Total 1.09 2.10 2.29 0.07 Above 50 Base Proved 15.74 6.18

97.343.13Probable

19.17 5.47 104.80 3.37 Total 34.91 5.79 202.14 6.50 KMS 50-60 Proved 0.60 13.49 8.09 0.26 Probable 2.39 13.01 31.15 1.00 Total 2.99 13.11 39.23 1.26 Obuasi Total 43.86 5.77 253.23 8.14 Ore Reserve modifying factors as at 31 December 2013 Obuasi Gold price US\$/oz **Cut-off** value g/t Au **Dilution** % **Dilution** g/t % **RMF** (based

on tonnes) % RMF (based on g/t) % **MRF** (based on tonnes) **MRF** (based on g/t) **MCF** % **MetRF** % Above 50 Base KMS 50-60 1,100 4.00* 12.0** 0.25 100.0 100.0 95.0 100.0 95.0 85.4 2.20g/t incremental cut-off, and 4.00g/t global cut-off for stopes, 1.5g/t cut-off for development. ** 20% for sub-level cave stoping, 12% for all other methods, 0% for development. 95% for stoping, 100% for development. **79** CONTINENTAL AFRICA **SECTION FOUR SECTION FIVE SECTION SIX SECTION THREE SECTION TWO**

SECTION ONE

Inferred Mineral Resource in business plan as at 31 December 2013 **Tonnes** million Grade g/t **Contained gold Obuasi Tonnes Moz Comment** Above 50 Base 1.94 6.79 13.15 0.42 5.5% Inferred Mineral Resource tonnes, and 6.5% Inferred Mineral Resource ounces KMS 50-60 0.17 15.37 2.55 0.08 Total 2.10 7.47 15.70 0.50 Ore Reserve below infrastructure as at 31 December 2013 **Tonnes** Grade **Contained gold Obuasi** Category million g/t **Tonnes** Moz Proved 0.60 13.49 8.09 0.26 Probable 2.39 13.01 31.15 1.00 Obuasi

Total 2.99

13.11 39.23 1.26 **COMPETENT PERSONS** Category **Competent Person Professional** organisation Membership number Relevant experience Qualification Mineral Resource Clement Asamoah-Owusu MAusIMM 210 145 29 years BSc (Hons) Geological Engineering MSc (Mineral Exploration) Ore Reserve Christian Boafo MAusIMM 312 532 16 years Graduate Diploma (Mining) **OBUASI** continued 0.0 1.5 0.5 1.0 3.0 2.0 2.5 3.5 4.5 5.0 4.0 Tonnes above cut-off (millions) Average grade above cut-off (g/t) Cut-off grade (g/t) 6.5

6.05.55.0

```
4.5
4.0
3.5
3.0
2.5
2.0
1.5
1.0
16
14
12
10
8
6
4
2
0
Tonnes above cut-off
Ave grade above cut-off
Obuasi
Grade tonnage curve – Surface (metric)
0
2
4
6
8
10
12
14
16
18
20
Tonnes
above
cut-off
(millions)
Average grade
above
cut-off (g/t)
Cut-off grade (g/t)
40
35
30
25
20
15
10
5
0
120
```

80 60 40 20 0 Tonnes above cut-off Ave grade above cut-off Obuasi

Grade tonnage curve – Underground (metric) MINERAL RESOURCE AND ORE RESERVE REPORT 2013

80

COUNTRY OVERVIEW

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

15% by the government of Guinea. The mine is a conventional open pit operation situated in the Siguiri district in the northeast of

Guinea. It lies about 850km from the capital city of Conakry and 109km from the border with Mali. Gold-bearing ore is mined from

several pits and sent to a CIP plant.

MINERAL RESOURCE ESTIMATION

Mineral Resource definition drilling is done with air core (AC), RC and DD. All available geological drill-hole information is validated for

usage in the models and the local geology of the deposit together with an understanding of grade variability is used to classify the

drill-hole information into appropriate estimation domains. Detailed statistical analyses are conducted on each of these domains and

this allows for the identification of high-grade outlier values. If these values are anomalous to the general population characteristics

they may be cut, that is reduced back to the appropriate upper limit of the population.

The Mineral Resource model is estimated using Ordinary Kriging into a 3D block model. Geological interpretation is based on

geological drill-hole data. The dimensions of these Mineral Resource blocks range from 10m x 10m x 2.5m to 50m x 25m x 6m block

sizes, guided by the shape of the deposit and the drilling density. The Mineral Resource is declared within an optimised limiting Mineral

Resource pit shell using a gold price, of US\$1,600/oz.

ORE RESERVE ESTIMATION

The Mineral Resource models for each pit are depleted to the current mined-out surface. Costs are assigned on a pit-by-pit basis,

reflecting the existing cost structure of the operation. The relevant dilution and ore loss factors are applied and pit optimisation is then

performed. The relevant modifying factors such as metallurgical recoveries, geotechnical parameters, cut-off grades and economics

are applied to generate the mine designs that are used to estimate the final Ore Reserve.

GUINEA

81

CONTINENTAL AFRICA

SECTION FOUR

SECTION FIVE

SECTION SIX

SECTION THREE

SECTION TWO

SECTION ONE

LOCATION

Siguiri is located in the Siguiri district of north-eastern Guinea, West Africa, and is about 850km from the capital city of Conakry. The

Société Ashanti Goldfields de Guinée (SAG) mining concession consists of four blocks totaling 1,495km2.

Gold mining in the district can be traced back for centuries, but there are no reliable records of pre-Western production. The French

became involved in the area in the late 19th and early 20th centuries. Between 1931 and 1951 the French reported gold coming out

of Siguiri, with figures varying between 1 and 3.8 tonnes annually, however little exploration work was completed. There was a phase

of Russian exploration in the area between 1960 and 1963. The Russian work focused on the placer deposits along the major river

channels in the area. In 1980 SOMIQ (Société Minière Internationale du Quebec) gained the exploration rights for Siguiri and Mandiana.

SOMIQ focused its work on the Koron and Didi areas. The Chevaning Mining Company Ltd. was then created to undertake a detailed

economic evaluation of the prospect, with more intensive work beginning in the late 1980s. AuG (Société Aurifère de Guinée) took

over from its predecessors and continued work on the placers deposits. Production on the Koron placer reached a peak in 1992 with

1.1t gold being produced, although due to a number of difficulties the mine was shut down later that year.

Golden Shamrock started a pre-feasibility study in 1995 after which Ashanti Goldfields became interested in the deposit and Siguiri

Mine started production in 1998 as Société Ashanti Goldfields de Guinée (SAG). In 2004 the merger of AngloGold and Ashanti resulted

in the operation being run by AngloGold Ashanti. Siguiri is currently a multi-pit oxide gold mining operation. All ore and waste is mined

by a mining contractor utilizing backhoe excavators and trucks. Most material is free dig with very limited "paddock blasting" in soft

laterites and saprolite and hard rock blasting in Duricrust. Processing of the ore is done by a CIP plant which has been successfully

optimised to reach throughput of 11.5Mt per annum.

GEOLOGY

The gold mineralisation at Siguiri occurs in Paleoproterozoic Birimian rocks consisting of turbidites and lesser volcaniclastic sequences.

It is situated in an arcuate zone of a larger anastomosing shear zone system. These zones form part of the northerly trending,

continental scale shear zone system that transects the West African Craton and bordering areas.

SIGUIRI

MINERAL RESOURCE AND ORE RESERVE REPORT

2013

82

There are two types of oxide mineralisation in the Siguiri basin:

•

eluvial or alluvial hosted laterite mineralisation; and

•

primary quartz vein and associated shear hosted mineralisation.

The laterite mineralisation occurs as alluvial lateritic gravel adjacent to and immediately above the in-situ vein related mineralisation.

The vein related mineralisation is hosted in metasediments and areas of economic gold mineralisation are formed where these veins

are closely spaced.

The main vein related mineralisation at Siguiri is structurally controlled and associated with a major, east-northeast trending and steep

south dipping sheeted quartz vein sets that generally occur in the coarser, brittle siltstone and sandstone lithologies. The regional

development and consistent orientation of this main vein set, irrespective of the nature of wall rocks or wall-rock structures, indicates

the control of these veins by regional strains.

A deep oxidation (weathering) profile is developed in the region, varying between 50m to 150m. The mineralised saprolite provides the

main oxide feedstock for the CIP plant. The previous practice at Siguiri was to blend the laterite and saprolite ore types and to process

these using the heap-leach method. With the percentage of available laterite ore decreasing, a CIP plant was brought on stream during

2005 to treat predominantly saprolite oxide ore. With continued exploration into deeper fresh rock extensions of the ore deposit, new

treatment options are again under consideration.

EXPLORATION

Exploration at Siguiri was historically focused on finding a new oxide Mineral Resource in the saprolite, and upgrading the confidence in

the existing oxide Mineral Resource. This is achieved using geophysics, soil geochemistry and drill-hole sampling in the context of the

regional and pit-scale geological models. Following the completion of an Asset Strategy Optimisation project in 2012, which indicated

the potential economic viability of the fresh rock material, the aim of the exploration has expanded and the objectives are twofold.

Firstly, there is an aim to explore for replacement and additional oxide material for short-term mining requirements. The second

objective of the exploration programme is to increase the level of confidence in the five major fresh rock targets below the oxide pits

at Bidini, Kami, Kalamagna, Seguélén and Sintroko. In 2013, 52,000m of reconnaissance AC and RC drilling was completed to test

soil sampling and geophysical targets as well as potential extensions to known mineralised trends, 18,000m of RC and DD drilling was

done on fresh rock exploration, while infill RC drilling amounted to 18,000m.

The infill drilling was completed at Soloni and Sokunu to upgrade Inferred Mineral Resource to Indicated Mineral Resource.

Detailed geophysical surveys completed in 2012 and early 2013 were used to refine the 2013 reconnaissance drilling programme.

Reconnaissance drilling was completed on two targets south of the existing Sintroko Pit, on the anomalies that lie adjacent to a major

structure that extends northwestward from the Seguélén Mineral Resource area as well as at two targets, Niono and Silakoro, that

lie to the west of the main pit areas. Follow-up work will be conducted in 2014 on three of the targets that returned intersections of

significance.

The fresh rock programme was focused on three areas. At Bidini and Seguélén the aim was to complete diamond drill holes to test the

mineralisation projected to depths of 200m to 250m below the oxide Mineral Resource with a row of holes at each pit spaced 100m

apart. At Kami a grid of diamond drill holes was completed in December 2013. The Kami grid was planned to give a 100m x 100m

spaced coverage of the mineralisation projected to approximately 200m below the oxide Mineral Resource and to provide detailed

information on the geological structures and lithologies controlling the mineralisation.

PROJECTS

In association with the Continental Africa Region's geological team as well as a Siguiri-sponsored PhD study by a student at the

University of Western Australia, good progress was achieved during 2013 on the production of a geological model for the mineralisation

on the Siguiri lease area. This model will be used to guide future exploration programmes as well as to inform the Mineral Resource

models. During the year RC and DD holes were drilled on the advanced Greenfields exploration targets at Saraya in Block 2 and

Kounkoun in Block 3 to provide samples for preliminary metallurgical testing. Economic scoping studies were conducted on these

deposits and the results of the studies and metallurgical tests will be used to decide on the timing of the next phase of work on these

deposits. An Inferred Mineral Resource has been declared for Kounkoun in 2013. Core samples from drill holes in Bidini and Kami were

also selected and submitted for preliminary metallurgical testing. The results are expected in the first quarter of 2014. The planned

project work in 2014 will involve a more-detailed assessment of the options to bring the Block 2 and Block 3 oxide deposits and the

Block 1 fresh rock deposits into production.

83

CONTINENTAL AFRICA

SECTION FOUR

SECTION FIVE

SECTION SIX

SECTION THREE

SECTION TWO

SECTION ONE

MINERAL RESOURCE Details of average drill-hole spacing and type in relation to Mineral Resource classification Type of drilling Mine/Project Category **Spacing** m (-x-) **Diamond** RC **Blast-hole Channel Other Comments** Siguiri Measured Indicated 20 x 40, 25 x 25, 50 x 25 Inferred 20 x 40, 50 x 25, 50 x 50 Grade/Ore Control 5 x 10, 5 x 12, 10 x 5, 10 x 10 Inclusive Mineral Resource as at 31 December 2013 **Tonnes**

Grade

Siguiri Category

Contained gold

million g/t Tonnes Moz Bidini Measured Indicated 3.17 1.17 3.71 0.12 Inferred 6.00 0.99 5.91 0.19 Total 9.16 1.05 9.62 0.31 Eureka East Measured Indicated 1.96 1.02 2.00 0.06 Inferred 0.41 0.72 0.30 0.01 Total 2.37 0.97 2.30 0.07 Foulata Measured

Indicated Inferred 3.37 1.48 4.98 0.16 Total 3.37 1.48 4.98 0.16 Kalamagna Measured Indicated 4.60 0.69 3.18 0.10 Inferred 0.60 0.74 0.44 0.01 Total 5.20 0.70 3.63 0.12 Kami Measured Indicated 8.48 0.79 6.73 0.22

Inferred 3.96 0.73

2.89 0.09 Total 12.44 0.77 9.62 0.31 Kosise Measured Indicated 3.72 0.74 2.75 0.09 Inferred 4.05 0.68 2.76 0.09 Total 7.77 0.71 5.51 0.18 Kozan North Measured Indicated 5.93 0.69 4.11 0.13 Inferred 0.54 0.70 0.38 0.01 Total 6.47 0.69 4.49 0.14 **SIGUIRI** continued

MINERAL RESOURCE AND ORE RESERVE REPORT 2013 84

as at 31 December 2013

Tonnes

Grade

Contained gold

Siguiri

Category

million

g/t

Tonnes

Moz

Kozan South

Measured

-

_

Indicated

6.93

0.72

4.97

0.16

Inferred

0.03

0.74

0.02

0.00

Total

6.96

0.72

4.99

0.16

Seguélén

Measured

6.26

0.79

4.96

0.16

Indicated

12.32

1.05

12.95

0.42

Inferred

4.89

1.23

6.04

0.19

Total

23.47

1.02

23.95

0.77 Sintroko South Measured Indicated 2.12 1.37 2.92 0.09 Inferred 0.20 1.77 0.36 0.01 Total 2.33 1.41 3.28 0.11 Sokunu Measured Indicated 4.50 0.87 3.92 0.13 Inferred 2.72 0.86 2.34 0.08 Total 7.21 0.87 6.26 0.20 Soloni Measured Indicated

6.11

4.37 0.14 Inferred 2.84 0.72 2.05 0.07 Total 8.95 0.72 6.42 0.21 Sorofe Measured Indicated 4.29 0.96 4.14 0.13 Inferred 2.78 1.20 3.33 0.11 Total 7.08 1.05 7.46 0.24 Kounkoun Measured Indicated Inferred 15.38 1.28 19.65 0.63 Total

0.72

15.38 1.28 19.65 0.63 Stockpile (Marginal Ore) Measured 22.27 0.48 10.80 0.35 Indicated Inferred Total 22.27 0.48 10.80 0.35 Stockpile (Full Grade Ore) Measured 5.42 1.00 5.40 0.17 Indicated Inferred Total 5.42 1.00 5.40 0.17 Stockpile (Spent Heap Leach) Measured

_

Indicated

31.95

0.54

17.29

0.56

Inferred

13.40

0.57

7.61

0.24

Total

45.35

. . . .

0.55

24.90

0.80

Siguiri

Total

191.19

0.80

153.25

4.93

Exclusive Mineral Resource

as at 31 December 2013

Tonnes

Grade

Contained gold

Siguiri

Category

million

g/t

Tonnes

Moz

Measured

0.41

0.61

0.25

0.01

Indicated

43.36

0.80

34.85

1.12

Inferred

61.17

0.97

59.06

1.90

Siguiri

Total

104.94

0.90

94.15

3.03

Inclusive Mineral Resource continued

85

CONTINENTAL AFRICA

SECTION FOUR

SECTION FIVE

SECTION SIX

SECTION THREE

SECTION TWO

SECTION ONE

The Exclusive Mineral Resource at Siguiri includes:

•

Indicated Mineral Resource that is economic at the Mineral Resource gold price of US\$1,600/oz, but not at the Ore Reserve price.

This material forms 42% of the Exclusive Mineral Resource.

•

Inferred Mineral Resource not included in the current pit designs. Selected parts of these areas will be included in infill drilling

programmes during 2015 and 2016 to meet LOM planning requirements. This Inferred Mineral Resource forms 55% of the

Exclusive Mineral Resource.

•

Inferred Mineral Resource located within the Ore Reserve optimised pit shell. This material forms 3% of the Exclusive Mineral

Resource.

There are portions of Indicated Mineral Resource associated with all the major pits as a result of the material being sub-economic

under current Ore Reserve optimisation conditions. The Inferred Mineral Resource material associated with the Exclusive Mineral

Resource is not currently supported by sufficient geological information to be classified as Indicated Mineral Resource or Measured

Mineral Resource and is therefore not incorporated in the Ore Reserve.

- 5.17
- -0.25
- -0.56
- -0.33
- 0.79
- 0.17
- -0.06
- 0.00

4.93

Ounces (millions)

- 5.2
- 5.0
- 4.8
- 4.6
- 4.4
- 4.2
- 4.0
- 3.8
- 2012

Deple-

tion

Gold

price

Cost

Explo-

ration

Metho-

dology

Other Acquisition/ Disposal 2013 Siguiri **Mineral Resource reconciliation: 2012 to 2013** 2.20 -0.23 0.02 -0.16 0.04 -0.02 -0.01 0.00 1.84 Ounces (millions) 2.25 2.20 2.15 2.10 2.05 2.00 1.95 1.90 1.85 1.80 1.75 2012 Other 2013 Siguiri Ore Reserve reconciliation: 2012 to 2013 Depletion Model change **Economics** New ounces from **Projects** Scope Change Acquisition/ Disposal **SIGUIRI** continued MINERAL RESOURCE AND ORE RESERVE REPORT 2013

86

ORE RESERVE Ore Reserve as at 31 December 2013 **Tonnes** Grade **Contained gold** Siguiri Category million g/t **Tonnes** Moz Eureka East Proved Probable 1.24 0.92 1.14 0.04 Total 1.24 0.92 1.14 0.04 Kalamagna Proved Probable 0.10 0.84 0.08 0.00 Total 0.10 0.84 0.08 0.00 Kozan North Proved

Probable

0.92 0.70 0.65 0.02 Total 0.92 0.70 0.65 0.02 Kozan South Proved Probable 2.71 0.76 2.07 0.07 Total 2.71 0.76 2.07 0.07 Seguélén Proved 6.03 0.80 4.83 0.16 Probable 9.50 1.05 9.98 0.32 Total 15.53 0.95 14.81 0.48 Sokunu Proved Probable 2.52 0.84 2.12

0.07 Total 2.52 0.84 2.12 0.07 Soloni Proved Probable 1.90 0.79 1.50 0.05 Total 1.90 0.79 1.50 0.05 Sorofe Proved Probable 1.67 0.86 1.43 0.05 Total 1.67 0.86 1.43 0.05 Stockpile (Marginal Ore) Proved 22.27 0.48 10.80 0.35 Probable Total

22.27

262

0.48 10.80 0.35 Stockpile (Full Grade Ore) Proved 5.42 1.00 5.40 0.17 Probable Total 5.42 1.00 5.40 0.17 Stockpile (Spent Heap Leach) Proved Probable 31.95 0.54 17.29 0.56 Total 31.95 0.54 17.29 0.56 Siguiri Total 86.23 0.66 57.28 1.84 87 CONTINENTAL AFRICA **SECTION FOUR SECTION FIVE SECTION SIX SECTION THREE SECTION TWO SECTION ONE**

Ore Reserve modifying factors as at 31 December 2013

Siguiri

Gold

price

US\$/oz

Cut-off

value

g/t Au

Dilution

%

Diluted

g/t

%

RMF

(based

on

tonnes)

%

RMF

(based

on g/t)

%

MRF

(based

on

tonnes)

%

MRF

(based

on g/t)

MCF

%

MetRF

%

Eureka East

1,100

0.65

18.0

0.22

100.0

100.0

82.4

88.0

100.0

90.0**

Kalamagna

1,100

0.65

5.0

0.28

100.0 100.0 97.1 97.5 100.0 90.0** Kozan North 1,100 0.65 9.0 0.24 100.0 100.0 95.1 96.6 100.0 90.0** Kozan South 1,100 0.65 4.0 0.25 100.0 100.0 94.4 94.8 100.0 90.0** Seguélén 1,100 0.67 11.0 0.31 100.0 100.0 95.6 96.0 100.0 90.0** Sokunu 1,100 0.68 22.0 0.33 100.0 100.0

98.1 98.7 100.0 90.0** Soloni

```
1,100
0.64
2.0
0.21
100.0
100.0
99.5
99.6
100.0
90.0**
Sorofe
1,100
0.65
14.0
0.26
100.0
100.0
91.0
91.5
100.0
90.0**
Stockpile (Full Grade Ore)
1,100
0.65
100.0
100.0
100.0
100.0
100.0
90.0*
Stockpile (Marginal Ore)
1,100
0.37
100.0
100.0
100.0
100.0
100.0
88.0
Stockpile (Spent Heap Leach)
1,100
0.37
100.0
100.0
```

100.0

100.0

100.0

90.0

- * Oxide = 90%, Transitional Ore = 75%.
- ** Marginal Ore = 80%, Transitional Ore = 55%.

SIGUIRI

continued

MINERAL RESOURCE AND ORE RESERVE REPORT

2013

88

Inferred Mineral Resource in business plan as at 31 December 2013 **Tonnes** million Grade g/t **Contained gold** Siguiri **Tonnes Moz Comment** Eureka East 0.20 0.49 0.10 0.00 Within pit design (7% Inferred Mineral Resource) Kozan North 0.00 0.26 0.00 0.00 Within pit design (0.01% Inferred Mineral Resource) Seguélén 2.50 0.97 2.42 0.08 Within pit design (12% Inferred Mineral Resource) Sokunu 0.08 0.76 0.06 0.00 Within pit design (2% Inferred Mineral Resource) Soloni 0.08 0.93 0.07 0.00 Within pit design (4% Inferred Mineral Resource) Sorofe 0.72 0.99 0.71 0.02 Within pit design (30% Inferred Mineral Resource) Total 3.57 0.94 3.35 0.11

There are instances where Mineral Resource material classified as Inferred Mineral Resource is included in the business plan. This

material totals 0.11 Moz, which is not significant and only represents 4.7% of the ounces in the business plan. The major contributors

of Inferred Mineral Resource material within the Ore Reserve are Seguélén and Tubani (Sorofe) at 0.08 Moz and 0.02 Moz respectively.

COMPETENT PERSONS

Category

Competent Person

Professional

organisation

Membership

number

Relevant

experience

Qualification

Mineral Resource

Craig Duvel

SACNASP

400007/98

19 years

BSc Hons (Geology)

GDE (Mining Engineering) WITS

Ore Reserve

Desiderius

Kamugisha

MAusIMM

227 181

12 years

BSc (Mining Engineering)

0.0

0.4

0.2

0.8

0.6

1.0

1.6

1.8

1.2

1.4

Tonnes above

cut-off (millions)

Average

grade

above

cut-off (g/t)

Cut-off grade (g/t)

2.4

2.2

2.0

1.8

1.6 1.4 1.2 1.0 0.8 0.6 0.4 0.2 350 300 250 200 150 100 50 0 Tonnes above cut-off Ave grade above cut-off Siguiri **Grade tonnage curve – Surface (metric) CONTINENTAL AFRICA SECTION FOUR SECTION FIVE SECTION SIX**

SECTION THREE SECTION TWO SECTION ONE

COUNTRY OVERVIEW

AngloGold Ashanti has interests in three operations in the West African country of Mali – Sadiola (41%), Yatela (40%) and Morila (40%).

The Sadiola and Yatela operations are managed by AngloGold Ashanti, while Randgold Resources Limited (Randgold) manages

Morila.

MINERAL RESOURCE ESTIMATION

The Mineral Resource is taken as the material that falls within the US\$1,600/oz economic shell optimised for each individual deposit.

Mining at Yatela has been stopped and treatment of stockpile material continues as part of the closure plan. A 3D surface is generated

to create the outline of the geological model within which grades are estimated. Block sizes are between 25m x 25m x 10m and

30m x 30m x 10m (X Y Z) and where appropriate, selective sub-celling is used for definition on the geological and mineralisation

boundaries. All the deposits are estimated by Ordinary Kriging. Where deemed appropriate, a geostatistical technique called Uniform

Conditioning (UC) is used to estimate the proportion of material that occurs above the cut-off, hence forming a recoverable Mineral

Resource model at a specific selective mining unit (SMU).

ORE RESERVE ESTIMATION

The Mineral Resource models are used as the basis for the Ore Reserve. Optimisations are run on the Measured and Indicated

Mineral Resource and the Measured, Indicated and Inferred Mineral Resource. All appropriate costs, metallurgical recovery factors and

geotechnical parameters are applied to generate the mine designs that are used to estimate the final Ore Reserve. MALI

MINERAL RESOURCE AND ORE RESERVE REPORT

2013

90

LOCATION

The Morila mine is situated some 280km southeast of Bamako, the capital city of Mali. The mine is operated by Morila SA, a joint

venture company incorporating Randgold (40%), AngloGold Ashanti (40%) and the Government of Mali (20%). Randgold took over

the operation of Morila mine from AngloGold Ashanti in February 2008.

Mining of the Morila main pit was re-investigated during 2012 and early 2013 and, due to improved economics, a further pushback

was planned (Pit4S). The mining of the main pit will be complemented by re-handling and processing the existing marginal ore and

mineralised waste stockpiles.

GEOLOGY

The Morila deposit occurs within a sequence of amphibolite facies Birimian metasediments. The economic mineralisation is located

in these metasediments within a broad north-northwest trending corridor of shearing. This shear zone has both near-vertical and

flat-lying components and is interpreted as being a second order shear off the main Banafin shear, approximately 25km to the east.

The Doubalakoro granite pluton borders the metasediments to the west and the Massigui granites lie to the east. Gold mineralisation

is associated with silica feldspar alteration and the sulphide minerals arsenopyrite, pyrrhotite, and pyrite (with minor chalcopyrite).

The pushback project on the south of the current pit has been updated in 2013 to reflect an improved slope angle design. A preliminary study revealed a total of 23.8Mt to be mined, including 22.6Mt of waste and 1.2Mt @ 3.00 g/t ore to produce 106,000

oz of recovered gold over a 22-month activity period. For cost saving reasons, all of the waste mined will be dumped in-pit.

PROCESSING

Ore throughput dropped to 3.6Mtpa since the SAG mill was taken off-line in July 2013 and the milling and crushing circuit reconfigured

along with an upgraded three-stage crushing plant. In addition, the plant's oxygen system was upgraded with the installation of a new

oxygen unit designed to improve the recovery rates as well as cyanide consumption. Additional Archen reactors are due to be installed

in early 2014 to further enhance oxygenation of the pulp.

MINERAL RESOURCE

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

Type of drilling

Mine/Project

Category

Spacing

m (-x-)

Diamond

RC

Blast-hole

Channel

Other

Comments

Morila

Measured

10 x 10

Indicated 30 x 30 Inferred 60 x 60 10 x 10 Grade/Ore Control **MORILA** CONTINENTAL AFRICA **SECTION FOUR SECTION FIVE SECTION SIX** SECTION THREE **SECTION TWO**

SECTION ONE

Inclusive Mineral Resource as at 31 December 2013 **Tonnes** Grade **Contained gold** Morila Category million g/t Tonnes Moz Main pit Measured Indicated 0.40 2.93 1.18 0.04 Inferred 0.15 4.02 0.60 0.02 Total 0.55 3.23 1.78 0.06 Stockpile (Marginal Ore) Measured 0.17 1.14 0.20 0.01 Indicated Inferred Total

0.171.14

0.20 0.01 Stockpile (Mineralised Waste) Measured Indicated Inferred 0.82 0.79 0.65 0.02 Total 0.82 0.79 0.65 0.02 Tailings storage facilities Measured Indicated Inferred 13.24 0.35 4.63 0.15 Total 13.24 0.35 4.63 0.15 Morila Total 14.78 0.49 7.26 0.23

Exclusive Mineral Resource

as at 31 December 2013 **Tonnes** Grade **Contained gold** Morila Category million g/t **Tonnes** Moz Measured Indicated Inferred 14.21 0.41 5.88 0.19 Morila Total 14.21 0.41 5.88 0.19 0.06 -0.05 0.00 0.00 0.00 0.04 0.00 0.00 0.04 Ounces (millions) 0.06 0.05

0.04 0.03 0.02 0.01 0.00 2012 Other

2013

Morila

Ore Reserve reconciliation: 2012 to 2013

Deple-

tion

Model

change

Economics

New

ounces

from

Projects

Scope

Change

Acquisition/

Disposal

0.27

-0.05

0.00

0.00

0.00

0.01

0.00

0.00

0.23

Ounces

(millions)

0.28

0.27

0.26

0.25

0.24

0.23

0.22

0.21

0.20

2012

Deple-

tion

Gold

price

Cost

Explo-

ration

Metho-

dology

Other

Acquisition/

Disposal

2013

Morila

Mineral Resource reconciliation: 2012 to 2013

MORILA continued

MINERAL RESOURCE AND ORE RESERVE REPORT

2013 92

0.00 0.50 0.25 1.00 0.75 1.25 1.75 2.00 1.50 Tonnes above cut-off (millions) Average grade above cut-off (g/t) Cut-off grade (g/t) 3.5 3.4 3.3 3.2 3.1 3.0 2.9 2.8 2.7 0.95 0.90 0.85 0.80 0.75 0.70 0.65 0.60 0.55 Tonnes above cut-off Ave grade above cut-off Morila **Grade tonnage curve – Surface (metric)** ORE RESERVE Ore Reserve as at 31 December 2013 **Tonnes** Grade **Contained gold** Morila Category million g/t **Tonnes**

Moz Main pit

Proved Probable 0.40 2.93 1.18 0.04 Total 0.40 2.93 1.18 0.04 Stockpile (Marginal Ore) Proved Probable 0.17 1.14 0.20 0.01 Total 0.17 1.14 0.20 0.01 Morila Total 0.57 2.40 1.38 0.04 Ore Reserve modifying factors as at 31 December 2013 Morila Gold price US\$/oz **Cut-off** value g/t Au Dilution **Dilution** g/t

%

```
RMF
(based
on
tonnes)
%
RMF
(based
on g/t)
%
MRF
(based
tonnes)
%
MRF
(based
on g/t)
MCF
%
MetRF
%
Main
pit
                             10.0
               1.00
1,000
100.0
100.0
95.0
100.0
100.0
91.0
Stockpile (Marginal Ore)
1,000
1.00*
100.0
100.0
100.0
100.0
100.0
88.8
US$1,000 Ore Reserve price used by Randgold Resources Limited (operating partner).
* Lower cut off for Marginal Ore is 1.00g/t with top cut off of 1.30g/t.
Inferred Mineral Resource in business plan
No planning or scheduling took place in areas classified as Inferred Mineral Resource.
COMPETENT PERSONS
Category
Competent Person
```

Professional organisation

Membership number

Relevant experience Mineral Resource

Rodney Quick*

SACNASP

400014/05

20 years

Ore Reserve

* Employed by Randgold Resources Limited.

93

CONTINENTAL AFRICA

SECTION FOUR

SECTION FIVE

SECTION SIX

SECTION THREE

SECTION TWO

SECTION ONE

LOCATION

Sadiola is situated in western Mali, 77km to the south of the regional capital of Kayes and about 440km north-west of the capital city

of Bamako. The mine is 41% owned by AngloGold Ashanti, 41% by IAMGOLD Corporation and 18% by the Republic of Mali.

The mine has been in production and operated by AngloGold Ashanti since 1996. Current operations are focused on the mining of

oxide material from the Fe4 and Tambali pits. Mining from the Sadiola main pit has stopped as the oxide Ore Reserve is depleted

although this pit remains a key project in the extension of the LOM plan with the Sadiola Sulphide Project (SSP) awaiting board

approval.

Ore is treated in a 4.8Mtpa CIP processing plant. The plant was originally designed to treat only soft oxide ore, but has been

progressively adapted to include a blend of hard oxides as well as batch feeding of a sulphide ore blend. Any hard material making up

the blends currently undergoes preconditioning through primary crushers.

The SSP aims to mine the underlying sulphide material in the Sadiola main pit and modify the existing oxide plant to process the

sulphide ore. The modified plant will treat both sulphide stockpiles and then the run-of-mine sulphide material. This project will extend

the life of Sadiola and leverage any further sulphide exploration successes in the region.

GEOLOGY

The Sadiola gold deposits are located within the Malian portion of the Keniéba-Kedougou Inlier, a major early Paleoproterozoic-

Birimian window along the northeast margin of the Kenema-Man shield. The deposits are in the north of the inlier and positioned in

the Kofi Formation, just east of the Senegalo-Malian Shear Zone (SMS) terrane boundary. Regional metamorphism is of greenschist

facies with amphibolites facies metamorphism observed in the contact aureoles around major intrusions.

The gold mineralisation in the Sadiola main pit is related to the interaction of the north-striking Sadiola Fracture Zone (SFZ) and a north-

northeast striking fault array. The SFZ follows the competency contrast between the brittle hangingwall greywacke and the ductile

footwall marbles and is mineralised over a drilled strike length of approximately 2,500km. The stratigraphy is intruded by discontinuous

diorite and quartz-feldspar porphyry dykes. Mineralisation occurs in all four rock types although most of the mineralisation is hosted in

the footwall adjacent to the SFZ. The deposit has been intensely weathered to a maximum depth of two hundred metres.

The oxide Ore Reserve of the original Sadiola main pit is now fully depleted with the remaining ore below the current pit being part of

the SSP.

The primary source of the oxide ore currently comes from two satellite areas. The FE3/FE4 complex is located approximately six

kilometres southeast of the Sadiola mine and processing plant while the new Tambali Pit is two kilometres southwest of the plant.

Mineralisation at the FE3 deposit is hosted in marbles adjacent to the upper contact with carbon-rich pelites. Gold is associated with

northeast-east striking faults and lens-shaped breccia zones that are broadly parallel to the northwest-trending stratigraphy. The FE4

deposit is located in an interbedded sandstone and pelite sequence with mineralisation predominantly hosted in breccia along a

northeast-striking regional shear and several subsidiary north-northeast-trending faults.

At Tambali the mineralisation is associated with two sets of structures, orientated in a north-north-easterly (NNE) (dipping steeply south-

east) and north-westerly (NW) (dipping south-west). These structures are often related to thin tourmaline-quartz rich shears/veins or zones

of (mostly NNE trending) quartz-feldspar porphyry intrusions that have undergone later shearing. A NW trending graphite rich brecciated

boundary between south-westerly dipping sandstones (in the East) and metapelites (in the west) is also evident. Bedding parallel shearing is

also indicated in some areas, possibly accounting for some of the westerly-dipping mineralised structures.

EXPLORATION

The exploration strategy at Sadiola is focused on the near-mine remaining oxide potential in the short term while ramping up exploration

of sulphide mineralisation potential in the medium to long term. During 2013 work consisted of reconnaissance drilling of identified

exploration oxide target areas while developing conceptual models of the sulphide controls.

During 2013 work was completed on a number of oxide targets in close proximity to the current pit areas of FE3/4 complex, Tambali

and Sadiola as well as further away along known mineralised extensions. The S12 prospect returned exciting drilling results showing

both oxide and sulphide potential within access of the FE3/4 complex infrastructure. The prospect is however situated adjacent to the

existing tailing storage facility (TSF) and indications are that mining will impact on the integrity of the TSF. Infill drilling was completed

at the FN3 and Tambali deposits to improve confidence in the Mineral Resource.

SADIOLA

MINERAL RESOURCE AND ORE RESERVE REPORT

2013

94

Exploration targeting was enhanced with an updated regolith map and new geophysical interpretations that were produced during the

year. Results from X-Ray fluorescence analysis of drill sample pulps produced good lithological indicators which will be expanded in

2014 to supplement all other analysis to assist in refining exploration targeting.

The Centre for Exploration Targeting (CET) from the University of Western Australia continued the research during the year. The

purpose of the research is to determine the controls on the genesis, geometry and location of the Sadiola gold system in order to

refine targeting and optimise the current mining. This second year of the research programme focused on laboratory work related to

geochronology, petrography and litho-geochemistry.

Although the Sadiola concession is considered a mature exploration area, potential remains for further oxide and sulphide discoveries.

A targeting workshop held in November 2013 identified areas for exploration in 2014 where the strategy remains focused on fast

tracking oxide potential and methodically exploring for sulphides, subject to a pending decision on the future of the SSP.

PROJECTS

The SSP remains the only major AngloGold Ashanti project in Mali and is the focus for extension of the LOM plan. The project is being

re-evaluated and optimised in light of the lower gold price.

MINERAL RESOURCE

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

Type of drilling

Mine/Project

Category

Cutcgory

Spacing

m (-x-)

Diamond

RC

Blast-hole Channel

Other

Comments

Sadiola

Measured

25 x 25

Indicated

25 x 25,

50 x 25

-

_

_

Inferred

50 x 50

-

SECTION ONE

SADIOLA continued Inclusive Mineral Resource as at 31 December 2013 **Tonnes** Grade **Contained gold** Sadiola Category million g/t **Tonnes** Moz FE2 Measured Indicated 0.53 1.77 0.94 0.03 Inferred 0.03 1.75 0.06 0.00 Total 0.57 1.76 1.00 0.03 FE3 Measured Indicated 1.40 2.23 3.12

0.10 Inferred 0.02 2.47 0.05 0.00 Total

287

1.42 2.23 3.17 0.10 FE4 Measured Indicated 0.63 2.14 1.35 0.04 Inferred 0.00 2.14 0.00 0.00 Total 0.63 2.14 1.35 0.04 FN2 Measured Indicated 0.12 1.44 0.18 0.01 Inferred Total 0.12 1.44 0.18 0.01 FN3 Measured

0.12 1.59 0.19 0.01 Inferred 0.11 1.69 0.18 0.01 Total 0.22 1.64 0.36 0.01 Total stockpiles Measured 6.66 0.83 5.50 0.18 Indicated 1.59 2.29 3.64 0.12 Inferred Total 8.25 1.11 9.14 0.29 Sekokoto Measured Indicated 0.25 1.59 0.40 0.01 Inferred

0.101.75

Indicated

0.17 0.01 Total 0.35 1.63 0.57 0.02 Tambali South Measured Indicated 2.71 1.24 3.37 0.11 Inferred 0.09 1.15 0.11 0.00 Total 2.81 1.24 3.48 0.11 SSP (Oxides) Measured 0.00 1.96 0.01 0.00 Indicated 0.44 1.45 0.64 0.02 Inferred 0.08 1.43 0.11 0.00 Total 0.52 1.45 0.75 0.02 SSP (Transitional) Measured

Indicated 0.22 1.54 0.34 0.01 Inferred 0.28 1.57 0.44 0.01 Total 0.50 1.56 0.78 0.03 SSP (Sulphides) Measured 0.00 4.84 0.02 0.00 Indicated 30.89 2.09 64.55 2.08 Inferred 5.42 2.04 11.04 0.35 Total 36.31 2.08 75.61 2.43 Sadiola Total 51.69 1.86 96.38

MINERAL RESOURCE AND ORE RESERVE REPORT

2013

3.10

96

97
CONTINENTAL AFRICA
SECTION FOUR
SECTION FIVE
SECTION SIX
SECTION THREE
SECTION TWO
SECTION ONE

SADIOLA continued Exclusive Mineral Resource as at 31 December 2013 **Tonnes** Grade **Contained gold** Sadiola Category million g/t **Tonnes** Moz Measured 5.08 0.74 3.77 0.12 Indicated 23.21 1.74 40.37 1.30 Inferred 6.13 1.98 12.16 0.39 Sadiola Total 34.42 1.64 56.29 1.81 The Exclusive Mineral Resource is defined as the part of the Mineral Resource that was not converted to Ore Reserve. For the Sadiola pits, the Exclusive Mineral Resource is defined as follows:

the Inferred Mineral Resource; and

.

material below the Ore Reserve cut-off grade and above the Mineral Resource cut-off grade.

The Exclusive Mineral Resource gives an indication of the future potential of the deposit. This material could be converted to Ore

the Mineral Resource that is outside the current Ore Reserve designs but inside the Mineral Resource shells;

Reserve with an increase in the gold price and favourable costs. The Inferred Mineral Resource portion of the Mineral Resource within

the Ore Reserve pit design will be converted to the Ore Reserve through grade control drilling. The low-grade 'mineralised waste'

stockpiles that are currently below the marginal ore cut-off grade are also declared as Exclusive Mineral Resource as these stockpiles

are currently not in the mining plan.

The Exclusive Mineral Resource includes three projects previously reported as Ore Reserve but were removed from the Ore Reserve

Statement because they are not economic at the lower business planning gold price: FN2 and FN3, FE2 and Tabakoto.

- 3.79
- -0.09
- -0.55
- 0.00
- 0.02
- 0.02
- -0.07
- -0.01
- 0.00
- 3.10

Ounces

(millions)

- 3.8
- 3.7
- 3.6
- 3.5
- 3.4
- 3.3
- 3.2
- 3.1
- 3.0
- 2.9
- 2012

Deple-

tion

Gold

price

Cost

Explo-

ration

Methodology

Other

Acquisition/

Disposal

2013

Sadiola

Mineral Resource reconciliation: 2012 to 2013

- 2.14
- -0.13
- -0.21
- -0.28
- 0.00
- 0.00
- -0.09
- 0.00
- 1.43

Ounces

(millions)

2.2

2.1

2.0

1.9

1.8

1.7

1.6

1.5

1.4

1.3

2012

Other

2013

Sadiola

Ore Reserve reconciliation: 2012 to 2013

Deple-

tion

Model

change

Economics

New

ounces

from

Projects

Scope

Change

Acquisition/

Disposal

MINERAL RESOURCE AND ORE RESERVE REPORT

2013

98

ORE RESERVE Ore Reserve as at 31 December 2013 **Tonnes** Grade **Contained gold** Sadiola Category million g/t **Tonnes** Moz FE4 Proved Probable 0.18 2.71 0.48 0.02 Total 0.18 2.71 0.48 0.02 Total stockpiles Proved Probable 2.64 1.11 2.92 0.09 Total 2.64 1.11 2.92 0.09 Tambali South Proved

Probable

1.05 1.49 1.57 0.05 Total 1.05 1.49 1.57 0.05 SSP (Oxides) Proved Probable 0.34 1.35 0.46 0.01 Total 0.34 1.35 0.46 0.01 SSP (Transitional) Proved Probable 0.11 1.79 0.20 0.01 Total 0.11 1.79 0.20 0.01 SSP (Sulphides) Proved Probable 18.80 2.07

1.25 Total 18.80 2.07 38.89 1.25 Sadiola Total 23.13 1.93 44.53 1.43 Ore Reserve modifying factors as at 31 December 2013 Sadiola Gold price US\$/oz **Cut-off** value g/t Au **Dilution** % **Dilution** g/t % **RMF** (based on tonnes) % **RMF** (based on g/t) % **MRF** (based on tonnes) **MRF** (based on g/t) **MCF** % **MetRF** % FE4

1,100 1.00 –1.70

```
0.07
100.0
100.0
97.3
97.0
100.0
94.0
#
SSP (Oxides)
1,100
1.00 - 1.65
3.4
0.08
100.0
100.0
97.3
96.7
100.0
94.0
Tambali South
1,100
1.00 - 1.65
1.9
0.03
100.0
100.0
96.0
98.2
100.0
94.0
SSP (Sulphides)
1,100
1.00 - 1.65
3.4
0.08
100.0
100.0
97.3
96.7
100.0
76.0**
SSP (Transitional)
1,100
1.00 - 1.65
3.4
0.08
100.0
100.0
```

96.7 100.0

85.0*

#

The Metallurgical recovery listed is for Saprolitic Oxide, included in the Ore Reserve.

** The Metallurgical recovery listed is for Hard Sulphide, included in the Ore Reserve.

* The Metallurgical recovery listed is for Transitional, included in the Ore Reserve.

99

CONTINENTAL AFRICA

SECTION FOUR

SECTION FIVE

SECTION SIX

SECTION THREE

SECTION TWO

SECTION ONE

SADIOLA continued Inferred Mineral Resource in business plan as at 31 December 2013 **Tonnes** million Grade g/t **Contained gold** Sadiola **Tonnes Moz Comment** FE4 0.00 1.50 0.00 0.00 Tambali South 0.02 1.17 0.02 0.00 Total 0.02 1.19 0.02 0.00 The plant feed of the final LOM pit designs includes Inferred Mineral Resource which has been included in the final schedule. The tonnage of the Inferred Mineral Resource Included in the LOM is less than one percent of the total LOM ore tonnage. **COMPETENT PERSONS** Category **Competent Person Professional** organisation **Membership** number Relevant experience **Qualification** Mineral Resource Geoffrey H. Gushée MAusIMM 207 957 25 years BA (Geology)

GDE (Mining Engineering) WITS MEng (Mineral Resource Management)

Ore Reserve Andrew Bridges MAusIMM 300 976 16 years BSc (Hons) Mining Engineering 0.0 0.1 0.2 Tonnes above cut-off (millions) Average grade above cut-off (g/t) Cut-off grade (g/t) 3.0 2.5 2.0 1.5 1.0 0.5 0.0 250 200 150 100 50 0 Tonnes above cut-off Ave grade above cut-off Sadiola **Grade tonnage curve – Surface (metric)** MINERAL RESOURCE AND ORE RESERVE REPORT

2013 100

LOCATION

Yatela mine is situated 25km north of Sadiola, approximately 50km southwest of Kayes. The mine is 40% owned by AngloGold

Ashanti, 40% by IAMGOLD Corporation and 20% by the Republic of Mali. Yatela is a mature open pit operation which has been

operated by AngloGold Ashanti since 2000 and is now operating in closure mode with mining activities from the pits completed in

September 2013. The Yatela mine is currently processing stockpile material and re-treating the heap leach pads. This material is

expected to provide feed to the processing plant through 2015.

Ore is processed through a three million tonnes per annum heap leach plant that was commissioned in 2000. The pregnant liquor

pond for gold recovery uses the carbon-in-solution (CIS) process, with loaded carbon being sent to Sadiola for elution, regeneration,

electro-winning and smelting.

GEOLOGY

The Yatela mine comprises the Yatela and Alamoutala deposits located in northwest Mali within the Keniéba-Kedougou Inlier, a major

Paleoproterozoic- Birimian inlier along the northeast margin of the Kenema-Man shield. The Yatela deposit is located in the north of the

inlier and is hosted in sedimentary rocks of the Kofi Formation, which have been intruded by numerous felsic to intermediate intrusives.

The sedimentary rocks consist of fine-grained greywackes, pelites and impure limestones with minor tuffs and acid volcanics. The

primary gold mineralisation is hosted along a sheared contact between predominantly dolomitic carbonate rocks of the Kofi Formation

to the west and a dioritic intrusion to the east. The secondary mineralisation was concentrated to economic grades through dissolution

of the carbonate and subsequent concentration of the gold by eluvial processes and supergene enrichment.

Karst development at Yatela has formed deep pot-holes, collectively named the Yatela Basin, which were gradually filled by sandstones

and conglomerates during peneplanation of the Proterozoic rocks. Chaotic collapse during karstification, coupled with the infill

sediments resulted in the deposit being hosted in a melange-type of rocks made up of sedimentary rocks and dissolution residues.

Gold is disseminated in the unconsolidated ferruginous, clastic layer with sandy-clayey matrix that lines the bottom and walls of a deep

trough with steep margins. The karst margin dips steeply on the west wall and more gently to the west on the east wall, following a

keel-like geometry with tight closure on the folded diorite towards the south. The supergene enrichment of low-grade primary gold

mineralisation associated with the karstification is the most important geological feature to the economics of the Yatela deposit.

YATELA

101

CONTINENTAL AFRICA

SECTION FOUR

SECTION FIVE

SECTION SIX

SECTION THREE

SECTION TWO

SECTION ONE

The geology of the Alamoutala deposits comprises north-trending clastic metasediments and calcitic marbles which were intruded

by a coarse-grained to porphyritic granodiorite. In the Alamoutala pits, the gold mineralisation is hosted in saprolitised (skarn altered)

marbles and karstic rocks in the northwest. The strong mineralisation occurs proximal to the intermittently sheared and fractured

contact, named the Alamoutala Fracture Zone, between the clastic and east carbonate units. Weaker or narrow mineralisation occurs

along the contact between the clastics and the western carbonate. The Alamoutala deposits are mined out. Primary mineralisation

at Alamoutala has invariably between classified as being skarn type possible driven by the granodiorite or a deeper seated intrusion.

EXPLORATION

An aggressive four-year oxide exploration drilling programme was completed at the end of January 2013 which resulted in four targets

being identified for follow up. The targets were infill drilled and evaluated with the results being: Yatela North East – optimisation shows

it is not economic at the planning Ore Reserve price; KW18 - Mineral Resource is small; Alamoutala North Extension – sub-economic

at the planning Ore Reserve price; and Dinnguilou - the deposit is small, low grade and far from the processing plant. The results of the exploration programme were submitted to a peer review in May 2013 to ensure the programmes were adequate

to realise any undiscovered potential on the concession. Geochemical, geophysical, mapping and drilling data were reviewed and

the conclusion was that the level of completed work was sufficient to test the concession and indicate that major undiscovered

mineralised zones were unlikely in those areas.

An asset close-out programme is in progress that will summarise the gold mineralisation remaining on the concession after closure

and catalogue exploration and mine geology data and information. The results from research by University of Western Australia's

Centre for Exploration Targeting will be used to assist in conceptual modelling of the sulphide potential to be included in the closure

document.

PROJECTS

No projects are planned on the Yatela concession. The main focus at Yatela is implementing the closure plan and processing the

remaining stockpiles while extracting additional value from the heap leach pads.

MINERAL RESOURCE

Inclusive Mineral Resource

as at 31 December 2013

Tonnes

Grade

Contained gold

Yatela

Category

million

g/t

Tonnes

Moz

Total stockpiles

Measured 0.35 0.54 0.19 0.01 Indicated Inferred Yatela Total 0.35 0.54 0.19 0.01 Exclusive Mineral Resource as at 31 December 2013 **Tonnes** Grade **Contained gold** Yatela Category million g/t **Tonnes** Moz Measured 0.35 0.54 0.19 0.01 Indicated Inferred Yatela Total

0.35 0.54

0.19 0.01

YATELA

continued

MINERAL RESOURCE AND ORE RESERVE REPORT

2013

102

0.09 -0.01 -0.07 0.00 0.00 0.00 0.00 0.00 0.01 Ounces (millions) 0.09 0.08 0.07 0.06 0.05 0.04 0.03 0.02 0.01 0.00 2012 Depletion Gold price Cost Exploration Methodology Other Acquisition/ Disposal 2013 Yatela **Mineral Resource reconciliation: 2012 to 2013** 0.03 -0.01 0.00 -0.02 0.00 0.00 0.00 0.00 0.00 Ounces (millions) 0.035

 $0.030 \\ 0.025$

0.020 0.015 0.010 0.005 0.000 2012 Other 2013 Yatela Ore Reserve reconciliation: 2012 to 2013 Depletion Model change **Economics** New ounces from **Projects** Scope Change Acquisition/ Disposal **ORE RESERVE** No Ore Reserve is declared for the Yatela operation for 2013. **COMPETENT PERSONS** Category **Competent Person Professional** organisation **Membership** number Relevant experience Qualification Mineral Resource Geoffrey H. Gushée MAusIMM 207 957 25 years BA (Geology) GDE (Mining Engineering) WITS MEng (Mineral Resource Management) Ore Reserve Andrew Bridges MAusIMM 300 976

16 years

103

BSc (Hons) Mining Engineering

CONTINENTAL AFRICA SECTION FOUR SECTION FIVE SECTION SIX SECTION THREE SECTION TWO SECTION ONE

COUNTRY OVERVIEW

Navachab gold mine, AngloGold Ashanti's sole operation in Namibia, is wholly owned by the company. It is currently the only significant

gold mining operation in Namibia.

MINERAL RESOURCE ESTIMATION

Mineral Resource estimation is performed using geostatistical techniques. Grade interpolation is done into blocks with approximate

dimensions of 20m x 20m x 5m using Ordinary Kriging and Indicator Kriging methods. A geostatistical technique called UC is then

used to estimate the proportion of ore that occurs above the Mineral Resource cut-off and this is reported assuming a specified

selective mining unit (SMU).

ORE RESERVE ESTIMATION

Optimised pit shells are generated using economic parameters. The final pits are then designed based on the optimised pit shell,

recommended slope geometry, ramp access requirements and economic assumptions. The mine design is used as the basis to

estimate the Ore Reserve.

NAMIBIA

MINERAL RESOURCE AND ORE RESERVE REPORT

2013

104

LOCATION

Navachab Gold Mine started out as a geochemical anomaly for copper, but in 1981 gold was discovered on the neighbouring farm

Krantzberg. Gold was discovered on the Navachab farm in 1984 and the first holes were drilled on the prospect in June 1985. The

feasibility study for the proposed gold mine was completed in July 1987 and production started in October 1989 with full production

being achieved in March 1990. Navachab is located 10km southwest of Karibib and 170km west-northwest of Windhoek, the capital of

Namibia. Navachab is mined as an open-pit mine with a CIP plant that has a production capacity of 120,000 tonnes per month (tpm). The

plant includes mills, CIP and electro-winning facilities. A dense-media separation (DMS) plant with a 200 tonnes per hour (tph) capacity

was commissioned during 2010 and a portion of the CIP feed comes from this pre-concentration plant.

GEOLOGY

The Navachab gold deposit is located in the Pan-African Damara Orogen and hosted by greenschist-amphibolite facies calc-silicates,

marbles and volcaniclastic rocks. The rocks have been intruded by granite, pegmatite and aplitic dykes and have also been deformed

into a series of alternating dome and basin-like structures.

The mineralisation at Navachab forms a sheet-like body which plunges at an angle of approximately 20° to the northwest. The

mineralisation is predominantly hosted in a sheeted quartz vein set (approximately 60% of tonnage) and a replacement skarn

(approximately 40% of tonnage). The mineralisation in the main pit is hosted by a northeast to southwest striking metamorphosed

sequence of calc-silicates, marbles and volcaniclastic rocks that dip at 70° to the west. The gold is very fine-grained and associated

with pyrrhotite and minor amounts of pyrite, chalcopyrite, arsenopyrite, sphalerite, 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 with a gold to

silver ratio of approximately 15 to 1.

EXPLORATION

The exploration strategy at Navachab's main deposit is to evaluate the shallow mineralisation in the NP2 pit (located adjacent to the

main pit) where a second vein swarm plunges down to 250m below surface. Drilling during the year has confirmed the down-plunge

extension of this mineralisation and this near-surface mineralisation will assist in unlocking deeper footwall mineralisation for further

exploitation down to 350m below surface. Drilling during the year has infilled mineralisation information gaps and confirmed the

footwall down-plunge extension.

Drilling during the next four years will focus on exploration of the satellite deposits to find near-surface, high-grade 'Grid A' type

mineralisation to displace low-grade plant feed during stripping of the main deposit extensions. Current satellite target areas are

Anomaly 16, Gecko, Steenbok, Starling and Klipspringer.

PROJECTS

Exploration of the Gecko target has produced a shallow, high-grade Mineral Resource containing 0.04 Moz. This mineralisation can be

used to supplement the low production years. Exploration of the Anomaly 16 target, which is approximately 7km from the plant, has

produced a lower-grade Mineral Resource of approximately 0.127 Moz with the potential to grow significantly. The Mineral Resource

for Anomaly 16 is currently situated in the Valley target area, whilst the Central and Beacon target areas are yet to be explored.

MINERAL RESOURCE

SECTION FIVE SECTION SIX

Details of average drill-hole spacing and type in relation to Mineral Resource classification Type of drilling Mine/Project Category **Spacing** m (-x-) **Diamond** RC **Blast-hole Channel** Other **Comments** Navachab Measured 5 x 10, 10 x 10 Indicated 25 x 25 Inferred 50 x 50 Grade/Ore Control 5 x 10 **NAVACHAB** 105 **CONTINENTAL AFRICA SECTION FOUR**

SECTION THREE SECTION TWO SECTION ONE

Inclusive Mineral Resource as at 31 December 2013 **Tonnes** Grade **Contained gold** Navachab Category million g/t Tonnes Moz Anomaly 16 Measured Indicated 1.70 1.36 2.33 0.07 Inferred 1.22 1.33 1.62 0.05 Total 2.92 1.35 3.95 0.13 Gecko Measured Indicated 0.51 1.56 0.80 0.03 Inferred 0.30

1.40 0.42 0.01 Total 0.81 1.50

1.22 0.04 Main pit (Anomaly 13) Measured Indicated 72.82 1.31 95.44 3.07 Inferred 5.31 1.24 6.57 0.21 Total 78.13 1.31 102.01 3.28 Stockpile (Marginal Ore) Measured 9.39 0.53 4.95 0.16 Indicated Inferred Total 9.39 0.53 4.95 0.16 Stockpile (Full Grade Ore) Measured 12.71 0.74 9.44 0.30

Indicated

Inferred Total 12.71 0.74 9.44 0.30 Navachab Total 103.96 1.17 121.57 3.91 Exclusive Mineral Resource as at 31 December 2013 **Tonnes** Grade **Contained gold** Navachab Category million g/t **Tonnes** Moz Measured 7.29 0.52 3.80 0.12 Indicated 40.72 1.15 46.72 1.50 Inferred 6.83 1.26 8.61 0.28

Navachab Total 54.84 1.08 59.13

1.90

The main pit contains the largest portion (1.629 Moz) of the Exclusive Mineral Resource. Approximately 0.12 Moz of the Exclusive

Mineral Resource is hosted in the marginal ore stockpiles at a grade of 0.52 g/t and the intention is to bring the gold to account

through pre-concentration (using the DMS plant) in the future. The remainder of the Exclusive Mineral Resource is from Anomaly 16

(0.13 Moz) and Gecko (0.02 Moz).

4.41

-0.10

-0.07

-0.28

0.05

0.07

-0.16

0.00

3.91

Ounces

(millions)

4.45

4.35

4.25

4.15

4.05

3.95

3.85

2012

Deple-

tion

Gold

price

Cost

Explo-

ration

Metho-

dology

Other

Acquisition/

Disposal

2013

Navachab

Mineral Resource reconciliation: 2012 to 2013

2.10

-0.09

0.06

-0.13

0.00

-0.02

0.00

0.00

Ounces

(millions)

2012

Other

2013

Navachab

Ore Reserve reconciliation: 2012 to 2013

Deple-

tion

Model

change

Economics

New

ounces

from

Projects

Scope

Change

Acquisition/

Disposal

2.12

2.08

2.04

2.00

1.96

1.92

1.88

NAVACHAB

continued

MINERAL RESOURCE AND ORE RESERVE REPORT

2013

106

ORE RESERVE Ore Reserve as at 31 December 2013 **Tonnes** Grade **Contained gold** Navachab Category million g/t **Tonnes** Moz Gecko Proved Probable 0.44 1.18 0.51 0.02 Total 0.44 1.18 0.51 0.02 Main pit (Anomaly 13) Proved Probable 32.64 1.52 49.48 1.59 Total 32.64 1.52 49.48 1.59 Stockpile (Marginal Ore) Proved

Probable

0.95 0.55 0.52 0.02 Total 0.95 0.55 0.52 0.02 Stockpile (Full Grade Ore) Proved Probable 12.31 0.74 9.13 0.29 Total 12.31 0.74 9.13 0.29 Navachab Total 46.34 1.29 59.65 1.92 Ore Reserve modifying factors as at 31 December 2013 Navachab Gold price US\$/oz \$/ZAR Exchange rate **Cut-off** value g/t Au **Dilution** % **Dilution** g/t % **RMF** (based

on

tonnes) % **RMF** (based on g/t) % **MRF** (based on tonnes) % **MRF** (based on g/t) **MCF** % MetRF % Gecko 1,100 10.53 0.49 100.0 100.0 100.0 100.0 100.0 88.6* Main pit (Anomaly 13) 1,100 10.53 0.75 100.0 100.0 100.0 100.0 100.0 88.6* Stockpile (Full Grade Ore) 1,100 10.53 0.4 100.0

```
100.0
100.0
100.0
88.6*
Stockpile (Marginal
Ore)
1,100
10.53
0.4
100.0
100.0
100.0
100.0
100.0
88.6*
* Average LOM % MetRF.
Inferred Mineral Resource in business plan
as at 31 December 2013
Tonnes
million
Grade
g/t
Contained gold
Navachab
Tonnes Moz
Comments
Gecko
0.07
0.62
0.04
0.00
Main pit (Anomaly 13)
0.85
1.19
1.01
0.03
Total
0.92
1.15
1.05
0.03
The Inferred Mineral Resource was used in the pit optimisation process and is present in the designed pits and in the
LOM schedule.
107
CONTINENTAL AFRICA
SECTION FOUR
SECTION FIVE
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SECTION SIX SECTION THREE SECTION TWO SECTION ONE

COMPETENT PERSONS

Category

Competent Person

Professional

organisation

Membership

number

Relevant

experience

Qualification

Mineral Resource

Graham Bell

MAusIMM

306 709

14 years

BSc (Geology)

BSc (Hons) Geological Engineering

Ore Reserve

George Botshiwe

MAusIMM

229 475

13 years

BSc (Hons) Mining Engineering

GDE (Mining Engineering) WITS

0.00

0.50

0.25

1.00

1.25 1.50 1.75

0.75

2.00

2.50 2.75 3.00

2.25

Tonnes above

cut-off (millions)

Average

grade

above

cut-off (g/t)

4.5

4.0

3.5

3.0

2.5

2.0

1.5

1.0

0.5

0.0

500

450

Tonnes above cut-off Ave grade above cut-off

Navachab

Grade tonnage curve – Surface (metric)

Cut-off grade (g/t) NAVACHAB

continued

MINERAL RESOURCE AND ORE RESERVE REPORT

COUNTRY OVERVIEW

Geita is the largest of AngloGold Ashanti's seven open-pit mines in Africa. Prior to April 2004, Geita was managed under a joint

venture agreement between Ashanti and AngloGold. Since the merger of the two companies, Geita is a wholly-owned subsidiary

of AngloGold Ashanti.

MINERAL RESOURCE ESTIMATION

The mineralisation boundaries for the individual deposits are defined from the detailed logging of all geological drill holes. This

information is validated and then used to create a 3D model. The geological model is subsequently populated with an appropriately

dimensioned block model. Ordinary Kriging is used to interpolate values into the blocks. A geostatistical technique called UC is used to

estimate the proportion of ore that occurs above the Mineral Resource cut-off and this is then reported assuming a specified selective

mining unit (SMU). The Mineral Resource is reported within a US\$1,600/oz optimised pit shell and above the calculated mineralised

waste cut-off grade per pit. Stockpiled material above mineralised waste cut-off grade is included in the Mineral Resource.

ORE RESERVE ESTIMATION

The Mineral Resource models are used as the basis for Ore Reserve estimation. Modifying factors include the input gold Ore

Reserve price, mining dilution and recovery, geotechnical, stay in business capital, operating costs, metallurgical recovery,

processing capacity, and mining equipment capacities. Appropriate Ore Reserve cut-off grades are applied and optimised pit

shells are generated. Pit designs are then done on selected shells upon which mine scheduling is done. An Ore Reserve gold price

of US\$1,100/oz was used.

TANZANIA

109

CONTINENTAL AFRICA

SECTION FOUR

SECTION FIVE

SECTION SIX

SECTION THREE

SECTION TWO

SECTION ONE

LOCATION

The Geita Gold Mine (GGM) is located approximately 910km from Dar es Salaam in the Lake Zone of northern Tanzania, with the mine

lease situated within the Archaean Sukumaland Greenstone Belt of the Lake Victoria goldfields. The mining licence (SML45/99) covers

approximately 196km2 while the other prospecting licences cover about 120km2. Other gold mines hosted in this greenstone belt

include Golden Pride, Bulyanhulu, Tulawaka, Buzwagi and North Mara. The geological setting is considered to be one of the world's

most-productive Archaean Greenstone belts.

Mining at Geita is currently undertaken by conventional truck and shovel open-pit mining method on three active pits (Nyankanga,

Geita Hill and Star & Comet). However, some underground mining potential exists and early stage studies are underway.

GEOLOGY

The Geita Greenstone belt forms part of the Archaean Sukumaland, which strikes east-west, is 60km in length and up to 15km

wide. The Geita terrain is comprised of upper- to mid-Nyanzian greenschist facies units, made up of clastic sediments, black shales.

banded iron formation and volcaniclastics. These have been intruded by a variety of felsic to mafic intrusive bodies, dykes and sills.

Supracrustal rocks of variable thickness are locally estimated to be at least 500m thick and are generally underlain by intrusive

complexes.

Within GGM tenure, the NW trending deformation corridors divide the Geita Greenstone Trend into three distinct sub-terrains, namely

Nyamulilima Terrain in the west (hosting the Star and Comet, Ridge 8 and Roberts deposits), Geita Terrain in the central part (hosting

the Nyankanga, Geita Hill, Lone Cone and Chipaka deposits) and Kukuluma Terrain to the northeast (hosting the Matandani, Kukuluma

and Area 3 West deposits). Approximately 78% of the Mineral Resource is situated in the Geita sub-terrain, with 16% in Nyamulilima

and 6% in Kukuluma Terrain.

Like other greenstone sequences the Geita Greenstone Belt has been through a protracted history of deformation, which resulted in

a property-scale, multiphase, box-shaped synformal configuration, with 'limbs' trending west-northwest and dipping mostly steeply,

connected by a northeast trending 'hinge zone' dipping moderately to northwest. This large-scale architecture conceals both prior

and post-deformation events, either as older folding systems, or younger shear arrays developing sub-parallel to the spatial position

of rock packages along its 'hinge and limb' zones. The Geita Terrain comprises mostly the northeasterly 'hinge' zone. To the west,

the Nyamulilima Terrain is mostly underlain by a semi-circular structure surrounding intrusive centers, and internally encompasses fold

and fault systems of variable scale which may locally control gold mineralisation. The Kukuluma Terrain, to the northeast, trends also

west-northwesterly, with sub-vertical limbs being dominant over compressed, multiphase hinge zones. Regional north-northeasterly

structures hosting Proterozoic gabbro dykes are also conspicuous geological features in the area.

EXPLORATION

The year 2013 saw exploration focusing on target consolidation exercises and improving geological knowledge on known deposits,

particularly the active Nyankanga, Geita Hill and Star & Comet open pits. Drilling programmes focused on infill drilling in active open

pits as well as their respective extensions (Nyankanga Deeps; Star & Comet Deeps; and Matandani). Limited early stage drilling

programmes were undertaken to test exploration targets. The infill drilling campaigns were designed to increase the confidence of the

Geita Mineral Resource so as to allow for conversion of the Mineral Resource to Ore Reserve.

Significant progress was made in understanding the geological setting and controls of gold mineralisation at the Nyankanga, Geita

Hill, Nyamulilima and Kukuluma domains. Geology simulations are in the process of being generated and refined to increase their

predictive abilities and to, as much as possible, mimic reality.

PROJECTS

GGM's exploration strategy included three major projects, namely Nyankanga Underground, Refractory Ore Projects and deep drilling

at Nyankanga and Star & Comet. During 2013 drilling programmes were undertaken to test the continuity of Nyankanga and Star

& Comet deposits at depth, as well as the extensions of known deposits in the Kukuluma Terrane at Matandani. Both deep-drilling

programmes were cut short as cut-backs on exploration budgets were necessitated by unfavourable commodity prices and a group-

wide cash conservation exercise.

GEITA

MINERAL RESOURCE AND ORE RESERVE REPORT

2013

In 2013 the Nyankanga underground project was the most advanced of the potential underground projects that GGM was looking at.

This project was at pre-feasibility stage when it was halted due to cutbacks in capital spending. In the meantime, GGM will proceed

with low-cost desktop and conceptual studies on all deposits that have potential for underground mining. The refractory ore project

had two elements namely the exploration aimed at increasing the Mineral Resource and the metallurgical test work. An optimal flow-

sheet is still to be identified and developed for the treatment of the refractory ore material.

MINERAL RESOURCE

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

Type of drilling Mine/Project

Category

Category

Spacing m (-x-)

Diamond

RC

Blast-hole Channel

Other

Comments

Geita

Measured

_

_

_

Indicated

20 x 20,

40 x 20,

40 x 40,

50 x 50

_

20x20 as optimal, 40x40 is the lower limit, infill drilling has incurred to 20x20m

and to 40x20m.

Inferred

40 x 40,

80 x 40

_

Classification study

revealed optimal spacing.

Grade/Ore Control 5 x 10,

10 x 5

--

Depths vary from 10 to 30m for routine grade control drilling.

111

CONTINENTAL AFRICA

SECTION FOUR

SECTION FIVE

SECTION SIX

SECTION THREE

SECTION TWO

SECTION ONE

Inclusive Mineral Resource as at 31 December 2013 **Tonnes** Grade **Contained gold** Geita Category million g/t Tonnes Moz Area 3 West Oxide Measured Indicated 1.06 2.31 2.45 0.08 Inferred 0.02 1.31 0.02 0.00 Total 1.08 2.29 2.47 0.08 Area 3 West (Refractory Ore) Measured Indicated 0.11 3.53 0.39 0.01 Inferred

Total 0.11 3.53

0.39 0.01 Chipaka Measured Indicated 1.33 1.75 2.32 0.07 Inferred 2.15 1.98 4.26 0.14 Total 3.48 1.89 6.58 0.21 Geita Hill (Open Pit) Measured Indicated 15.03 2.74 41.13 1.32 Inferred 0.73 2.26 1.64 0.05 Total 15.76 2.71 42.77 Geita Hill (Underground) Measured

Indicated

4.79 4.27 20.45 0.66 Inferred 4.27 4.32 18.46 0.59 Total 9.07 4.29 38.91 1.25 Kalondwa Hill Measured Indicated Inferred 1.07 3.34 3.58 0.12 Total 1.07 3.34 3.58 0.12 Kukuluma (Non-Refractory Ore) Measured Indicated 0.11 2.92 0.31 0.01 Inferred

Total 0.11 2.92 0.31 0.01 Kukuluma (Refractory Ore) Measured Indicated Inferred 1.37 4.00 5.46 0.18 Total 1.37 4.00 5.46 0.18 Lone Cone Measured Indicated 2.48 2.45 6.09 0.20 Inferred 1.99 2.43 4.83 0.16 Total 4.47 2.44 10.92 Matandani (Non-Refractory Ore) Measured

Indicated 1.18 2.26 2.68 0.09 Inferred 0.00 8.66 0.03 0.00 Total 1.19 2.28 2.71 0.09 Matandani (Refractory Ore) Measured Indicated Inferred 2.04 4.41 9.00 0.29 Total 2.04 4.41 9.00 0.29 Nyankanga (Open Pit) Cut 6 Measured Indicated 0.15 3.92 0.57 0.02

Inferred 0.07

1.52 0.10 0.00

Total

0.21

3.17

0.68

0.02

GEITA

continued

MINERAL RESOURCE AND ORE RESERVE REPORT

2013

Inclusive Mineral Resource continued as at 31 December 2013 **Tonnes** Grade **Contained gold** Geita Category million g/t Tonnes Moz Nyankanga (Open Pit) Cut 7 Measured Indicated 9.88 4.04 39.89 1.28 Inferred 1.25 2.08 2.59 0.08 Total 11.13 3.82 42.48 1.37 Nyankanga (Open Pit) Cut 8 Measured Indicated 8.35 4.89 40.85 1.31 Inferred 5.01 1.80 9.01 0.29 Total

13.363.73

49.86 1.60 Nyankanga (Open Pit) Cut 11 Measured Indicated 1.25 5.77 7.22 0.23 Inferred 0.40 2.88 1.15 0.04 Total 1.65 5.07 8.37 0.27 Nyankanga Others Measured Indicated 0.45 2.86 1.30 0.04 Inferred 4.31 2.48 10.69 0.34 Total 4.76 2.52 11.99 0.39 Nyankanga (Underground) Measured

Indicated

2.55 5.33 13.57 0.44 Inferred 1.78 5.02 8.95 0.29 Total 4.33 5.20 22.53 0.72 Ridge 8 (Open Pit) Measured Indicated 2.96 1.98 5.87 0.19 Inferred 0.08 1.38 0.11 0.00 Total 3.04 1.97 5.98 0.19 Ridge 8 (Underground) Measured Indicated 1.55 4.25 6.59 0.21 Inferred 2.78 4.30 11.94

0.38

Total 4.33 4.28 18.52 0.60 Roberts Measured Indicated 8.88 1.57 13.95 0.45 Inferred 0.33 4.03 1.32 0.04 Total 9.20 1.66 15.27 0.49 Star and Comet Measured Indicated 2.92 3.53 10.30 0.33 Inferred 1.75 3.56 6.21 0.20 Total 4.67 3.54 16.51 Stockpile (Full Grade Ore) Measured

Indicated 3.81 1.80 6.86 0.22 Inferred Total 3.81 1.80 6.86 0.22 Stockpile (Marginal Ore) Measured Indicated 9.08 0.88 7.94 0.26 Inferred Total 9.08 0.88 7.94 0.26 Stockpile (Refractory Ore) Measured Indicated 0.56 2.80 1.57 0.05

Inferred

_

_

Total

0.56

2.80

1.57

0.05

Geita

Total

109.87

3.02

331.66

10.66

113

CONTINENTAL AFRICA

SECTION FOUR

SECTION FIVE

SECTION SIX

SECTION THREE

SECTION TWO

SECTION ONE

Exclusive Mineral Resource as at 31 December 2013 **Tonnes** Grade **Contained** gold Geita Category million g/t **Tonnes** Moz Measured Indicated 48.23 2.43 117.00 3.76 Inferred 31.38 3.17 99.35 3.19 Geita Total 79.61 2.72 216.35 6.96 The Exclusive Mineral Resource at Geita includes the underground Mineral Resource plus additional material that occurs predominantly between the Ore Reserve pit shell and the Mineral Resource pit shell (at a gold price of US\$1,600/oz). This material is not economic to mine at the current Ore Reserve gold price and forms potential extensions to the current LOM in an elevated gold price environment. A significant portion of this material is in the Inferred Mineral Resource category (including 0.27Moz within the Ore Reserve Pit shell) and infill drilling programmes are planned to upgrade potentially economic areas to Indicated Mineral Resource. In instances where the mineralisation extends down-dip, below the current LOM design pit shell and where it could potentially be

economically exploited by underground mining methods, a 35m crown pillar forms part of the Exclusive Mineral

as at 31 December 2013

Mineral Resource below infrastructure

open pit limits. This material is not planned to be mined.

Resource below the

Tonnes

Grade

Contained gold

Geita Category million g/t Tonnes Moz Measured

_

-

-

Indicated

8.89

4.57

40.61

1.31

Inferred

8.83

4.45

39.35

1.27

Geita

Total

17.72

4.51

79.96

2.57

12.28

-0.62

-1.61

-0.41

0.23

0.82

-0.03

0.00

10.66

Ounces

(millions)

12.5

12.0

11.5

11.0 10.5

10.0

9.5

9.0

2012

Deple-

tion

Gold

price

Cost Exploration Methodology Other Acquisition/ Disposal 2013 Geita Mineral Resource reconciliation: 2012 to 2013 5.42 -0.50 0.46 -2.00 0.00 0.51 0.00 0.00 3.90 Ounces (millions) 5.5 5.0 4.5 4.0 3.5 3.0 2.5 2012 Other 2013 Geita Ore Reserve reconciliation: 2012 to 2013 Depletion Model change **Economics** New ounces from **Projects** Scope Change Acquisition/ Disposal **GEITA** continued MINERAL RESOURCE AND ORE RESERVE REPORT

ORE RESERVE Ore Reserve as at 31 December 2013 **Tonnes** Grade **Contained gold** Geita Category million g/t **Tonnes** Moz Geita Hill (Open pit) Proved Probable 10.53 2.82 29.68 0.95 Total 10.53 2.82 29.68 0.95 Nyankanga (Open pit) Cut 7 Proved Probable 9.06 4.31 39.06 1.26 Total 9.06 4.31 39.06 Nyankanga (Open pit) Cut 8 Proved

Probable

5.29 5.79 30.62 0.98 Total 5.29 5.79 30.62 0.98 Nyankanga (Open pit) Cut 11 Proved Probable 1.18 6.03 7.10 0.23 Total 1.18 6.03 7.10 0.23 Star and Comet Proved Probable 0.39 5.12 1.99 0.06 Total 0.39 5.12 1.99 0.06 Stockpile (Full Grade Ore) Proved Probable 3.81 1.80

6.86

0.22 Total 3.81 1.80 6.86 0.22 Stockpile (Marginal Ore) Proved Probable 6.67 0.89 5.97 0.19 Total 6.67 0.89 5.97 0.19 Geita Total 36.92 3.28 121.29 3.90 115 CONTINENTAL AFRICA **SECTION FOUR SECTION FIVE SECTION SIX** SECTION THREE **SECTION TWO**

SECTION ONE

GEITA

continued

Ore Reserve modifying factors

as at 31 December 2013

Geita

Gold

price

US\$/oz

Cut-off

value

g/t Au

Dilution

%

Dilution

g/t

%

RMF

(based

on

tonnes)

%

RMF

(based

on g/t)

%

MRF

(based

on

tonnes)

%

MRF

(based

on g/t)

MCF

%

MetRF

%

Nyankanga (Open pit)

Cut 6, 7, 8, 9, 10, 11 and

Nyankanga Others

1,100

1.23

100.0

100.0

105.0

95.0

100.0

92.7

Geita Hill (Open pit)

```
1,100
1.28
100.0
100.0
105.0
95.0
100.0
89.6
Star and Comet
1,100
1.39
105.0
95.0
105.0
95.0
100.0
91.0
Stockpile (Full Grade Ore) *
1,100
1.27
100.0
100.0
100.0
100.0
100.0
91.0
Stockpile (Marginal Ore) *
1,100
0.94
100.0
100.0
100.0
100.0
100.0
91.3
Dilution included in MRF.
* Stockpile (Full Grade and Marginal Ore) = Average factors among Nyankanga, Geita Hill and Star and Comet.
Inferred Mineral Resource in business plan
as at 31 December 2013
Tonnes
million
Grade
g/t
```

Contained gold Geita **Tonnes Moz Comment** Geita Hill (Open pit) 0.45 2.01 0.90 0.03 Within Geita Hill West and East pit design Nyankanga (Open pit) Cut 7 1.21 2.01 2.43 0.08 Within pit design Nyankanga (Open pit) Cut 8 2.05 1.96 4.02 0.13 Nyankanga (Open pit) Cut 11 0.38 3.00 1.13 0.04 Star and Comet 0.01 1.73 0.01 0.00 Total 4.08 2.08 8.48 0.27 No Inferred Mineral Resource is included in the pit optimisation exercise. Although it does not contribute to the economic assessment of the optimised pit (it is deactivated during the optimisation runs), it is present within the final pit shell as Exclusive Resource. Ore Reserve below infrastructure There is no Ore Reserve reported below infrastructure. MINERAL RESOURCE AND ORE RESERVE REPORT 2013

COMPETENT PERSONS Category **Competent Person Professional** organisation Membership number Relevant experience Qualification Mineral Resource Steven Robins MAusIMM 222 533 18 years BSc Hons (Geology) MSc (Mineral Resource Evaluation) Ore Reserve Jasper Musadaidzwa MAusIMM 991 333 16 years BEng (Hons) (Mining) GDE (Mineral Economics) WITS **MBA** Oblique view looking down-dip of Star and Comet orebody 0 2 4 3 5 7 8 6 Tonnes above cut-off (millions) Average grade above cut-off (g/t) Cut-off grade (g/t) 13 12 11 10

```
5
4
3
2
80
70
60
50
40
30
20
10
0
Tonnes above cut-off
Ave grade above cut-off
Geita
Grade tonnage curve – Surface (metric)
1
2
3
4
5
6
7
8
9
Tonnes
above
cut-off
(millions)
Average
grade
above
cut-off (g/t)
Cut-off grade (g/t)
14
12
10
8
6
4
2
0
55
50
45
40
35
30
```

20

15 10

5

0

Tonnes above cut-off

Ave grade above cut-off

Geita

Grade tonnage curve – Underground (metric)

117

CONTINENTAL AFRICA

SECTION FOUR

SECTION FIVE

SECTION SIX

SECTION THREE

SECTION TWO

SECTION ONE

AUSTRALASIA SECTION FOUR

P118-131

AngloGold Ashanti's Australasian assets comprise Sunrise Dam and the 70%-owned Tropicana gold mine.

AU

MINERAL RESOURCE AND ORE RESERVE REPORT

AngloGold Ashanti operates two mines in Western Australia: Sunrise Dam and the new Tropicana gold mine, along with joint

venture partner Independence Group Ltd., who holds a 30% stake. Tropicana, a greenfields discovery made by AngloGold Ashanti,

commenced production during 2013, with the first gold bar poured on September 26th . AngloGold Ashanti is managing the Tropicana

project along with a large regional exploration programme that covers some 10,833km2 of tenements along a 350km strike length,

considered one of the most prospective regions for new gold discoveries in Australia.

As at 31 December 2013, the total attributable Mineral Resource (inclusive of the Ore Reserve) for the Australia region was 8.63Moz

(2012: 8.34Moz) and the attributable Ore Reserve, 3.81Moz (2012: 3.91Moz). Sunrise Dam accounted for 37% and Tropicana 63%

of the region's Mineral Resource, and Australasia accounted for around 3.7% and 5.6% of the group's Mineral Resource and Ore

Reserve respectively.

Production from Australasia was steady at 342,000 ounces in 2013, equivalent to 8% of group production. *Inclusive Mineral Resource*

as at 31 December 2013

Tonnes

Grade

Contained gold

Australasia

Category

million

g/t

Tonnes

Moz

Measured

35.57

1.65

58.87

1.89

Indicated

70.92

2.10

148.71

4.78

Inferred

20.05

3.04

60.92

1.96

Total

126.54

2.12

268.51

8.63

Exclusive Mineral Resource

as at 31 December 2013

Tonnes

Grade

Contained gold

Australasia

Category

million

g/t

Tonnes

Moz

Measured

3.21

0.87

2.80

0.09

Indicated

43.29

1.97

85.30

2.74

Inferred

20.05

3.04

60.92

1.96

Total

66.55

2.24

149.02

4.79

Ore Reserve

as at 31 December 2013

Tonnes

Grade

Contained gold

Australasia

Category

million

g/t

Tonnes

Moz

Proved

32.37

1.73

56.08

1.80

Probable

27.16

2.30

62.33

2.00

Total

59.53

3.81 **OVERVIEW** Moz 7 6 5 4 3 2 0 December 2012 December 2013 Australia **Inclusive Mineral Resource – attributable** Per operation/project Moz December 2012 December 2013 Australia Ore Reserve – attributable Per operation/project 7 6 5 4 3 2 0 119 **AUSTRALASIA SECTION FOUR SECTION FIVE SECTION SIX SECTION THREE SECTION TWO**

SECTION ONE

1.99 118.41

AUSTRALIA

COUNTRY OVERVIEW

Sunrise Dam was acquired by AngloGold Ashanti at the end of 1999. The Australian assets currently comprise the Sunrise Dam gold

mine and the Tropicana gold mine.

AngloGold Ashanti owns 100% of Sunrise Dam gold mine. The Tropicana gold mine is a joint venture with Independence Group NL in

which AngloGold Ashanti Australia Limited holds 70%.

The Tropicana deposit represents a discovery in a new gold province in which the joint venture partners have a dominant land position

and a competitive advantage in understanding the mineralised system. Exploration potential in the district is high and a number of

large targets have been identified.

MINERAL RESOURCE ESTIMATION

Sunrise Dam

Estimation of the underground Mineral Resource uses the geological model boundaries to subdivide all drill-hole data into appropriate

domains. Statistical analyses are performed on these domains and high-grade outliers are identified and appropriately cut back

to an upper limit. A number of different geostatistical estimation methods have been applied to the deposit, reflecting the different

styles of mineralisation and mining methods. Ordinary Kriging, Multiple Indicator Kriging and Conditional Simulation are used to

produce estimates of average gold grade of a pre-determined block size. The use of Conditional Simulation allows for the probabilistic

determination of the optimal mining stope configuration.

Mining of the open pit Mineral Resource was completed during 2012, and mining the crown pillar at the base of the pit finished in

2013. Remaining stockpiled material is estimated based on detailed grade control drilling completed prior to mining, with grades

estimated via the geostatistical method of Conditional Simulation.

The Golden Delicious deposit has been estimated using UC. All available geological drill-hole information is validated for use in the

models and the local geology of the deposit is used to classify the drill-hole information into appropriate estimation 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 they are then cut back to an appropriate upper limit for the population.

Tropicana

All available geological drill-hole information is validated for use in the models and the local geology of the deposit 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 and cutting of high-grade outliers. The recoverable gold Mineral Resource for the open pit is

estimated by UC which estimates the proportion of material recovered by mining above a cut-off grade, assuming a specified selective

mining unit (SMU).

The underground Mineral Resource estimate uses drilling completed as part of the Havana Deeps Pre-Feasibility study, targeting

the down plunge and along strike extents of the Havana deposit outside the current Havana open pit. The geostatistical method of

Ordinary Kriging is used to estimate the underground Mineral Resource.

MINERAL RESOURCE AND ORE RESERVE REPORT

2013

120

ORE RESERVE ESTIMATION

Sunrise Dam

The open pit Ore Reserve estimate is based on run-of-mine (ROM) stockpiles only. The underground Ore Reserve is based on portions

of the Mineral Resource model which were projected to be mineable based on price, mining factors and mill recovery assumptions.

The mining shapes are based in Indicated Mineral Resource materials that are projected to provide a 15% margin on total cost,

based on the reference assumptions. Mine layout and designs have been created within mining shapes for each geological domain,

to calculate the Ore Reserve directly from the Mineral Resource model. The Proved and Probable Ore Reserve was then defined by

applying the Mineral Resource classification for each estimation domain.

Tropicana

The Ore Reserve is estimated within the current pit design using the relevant Mineral Resource model and updated geotechnical and

metallurgical parameters and appropriate operating costs.

121

AUSTRALASIA

SECTION FOUR

SECTION FIVE

SECTION SIX

SECTION THREE

SECTION TWO

SECTION ONE

SUNRISE DAM

LOCATION

Sunrise Dam is approximately 220km north-northeast of Kalgoorlie and 55km south of Laverton in Western Australia. The mine,

100% owned by AngloGold Ashanti, comprises a large open pit and underground mining complex. Open pit production commenced

in 1997 and is now complete at a final depth of 500m below surface. Underground mining commenced in 2003 with a number of

different mining methods that are dependent on the style of mineralisation and grade of the geological domain. Mining is carried out by

contractors and ore is treated in a conventional gravity and carbon in leach (CIL) process plant. The underground mine is undergoing

a significant growth phase with production expected to reach 2.4Mt of ore in 2014.

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 styles recognised:

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

•

stockwork development in planar faults with brittle characteristics (these occur in all rock types and are commonly concentrated

at contacts within the volcanic stratigraphy or the porphyry margin and within hinge positions within the magnetite shales) – e.g.

Western Shear Zone, Watu, Cosmo, Summercloud; and

•

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.

EXPLORATION

Exploration around Sunrise Dam during 2014 will concentrate on defining high-grade targets (including Sunrise Shear, Cosmo and

the Midway Shear) proximal to existing underground development, and to further define and extend the Vogue domain. The focus of

exploration is to convert drilling areas into production and Ore Reserve ounces as quickly and efficiently as possible, whilst maintaining

a high-standard of strategic sampling for geological and geometallurgical modeling.

MINERAL RESOURCE AND ORE RESERVE REPORT 2013

122

MINERAL RESOURCE

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

Type of drilling

Mine/Project

Category

Spacing

m (-x-)

Diamond

RC

Blast-

hole

Channel

Other

Comments

Surface

Measured

25 x 25

-

_

Indicated

40 x 40

_

Inferred

100 x 100

_

-

Grade/Ore Control

6 x 8

_

_

Underground

Measured

_

_

Indicated

20 x 20

-

Inferred 50 x 50 Grade/Ore Control 7 x 7 Inclusive Mineral Resource as at 31 December 2013 **Tonnes** Grade **Contained gold Sunrise Dam** Category million g/t Tonnes Moz Golden Delicious Measured 0.61 1.69 1.04 0.03 Indicated 1.88 1.50 2.82 0.09 Inferred 0.01 1.38 0.01 0.00 Total 2.50 1.55 3.87 0.12 Stockpile (Open pit) Measured

14.55

1.08 15.75 0.51 Indicated Inferred Total 14.55 1.08 15.75 0.51 Underground Measured Indicated 15.59 2.72 42.41 1.36 Inferred 11.74 3.19 37.45 1.20 Total 27.33 2.92 79.86 Stockpile (Underground) Measured 0.39 2.27 0.89 0.03 Indicated

Inferred

_

_

Total

0.39

2.27

0.89

0.03

Sunrise Dam

Total

44.78

2.24

100.38

3.23

Exclusive Mineral Resource

as at 31 December 2013

Tonnes

Grade

Contained gold

Sunrise Dam

Category

million

g/t

Tonnes

Moz

Measured

0.61

1.69

1.04

0.03

Indicated

10.80

2.24

24.17

0.78

Inferred

11.75

3.19

37.47

1.20

Sunrise Dam

Total

23.17

2.71

62.67

2.01

The Exclusive Mineral Resource includes the entire Golden Delicious Mineral Resource because detailed Ore Reserve estimation

and mine planning is yet to take place. In the underground mine, a large portion of Indicated Mineral Resource sits in the Exclusive

Mineral Resource due to the material being lower grade and therefore failing to meet the Ore Reserve cut-off grade requirements. The

entire Inferred Mineral Resource in the underground mine sits in the Exclusive Mineral Resource. The majority of this Inferred Mineral

Resource is located in the deeper parts of the underground mine where the drill density is not yet adequate for the Mineral Resource

to be considered in the Ore Reserve definition process.

123

AUSTRALASIA

SECTION FOUR

SECTION FIVE

SECTION SIX

SECTION THREE

SECTION TWO

SECTION ONE

SUNRISE DAM

continued

Mineral Resource below infrastructure

There is no Mineral Resource reported below infrastructure.

ORE RESERVE

Ore Reserve

as at 31 December 2013

Tonnes

Grade

Contained gold

Sunrise Dam

Category

million

g/t

Tonnes

Moz

Stockpile (Open pit)

Proved

14.55

1.08

15.75

0.51

Probable

_

_

_

Total

14.55

1.08

15.75

0.51

Underground

Proved

-

_

Probable

6.20

3.22

19.97

0.64

Total

6.20

3.22

19.97

0.64

Stockpile (Underground)

Proved

0.39

2.27 0.89 0.03 Probable Total 0.39 2.27 0.89 0.03 Sunrise Dam Total 21.14 1.73 36.62 1.18 Ore Reserve modifying factors **31 December 2013 Sunrise Dam** Gold price AUD/oz **Cut-off** value g/t Au **Stoping** width **Dilution** Dilution g/t % **RMF** (based on tonnes) **RMF** (based on g/t) % **MRF** (based on

tonnes)
%
MRF
(based

on g/t) **MCF** % **MetRF** % Stockpile (Underground) and Stockpile (Open pit) 1,249 0.67* 100.0 100.0 100.0 100.0 100.0 85.5 Underground 1,249 2.03 2,200.0 10.0 0.20 100.0 100.0 90.8 90.8 100.0 85.5 * Economic cutoff grade is 0.60g/t, but the stockpile's average grade of oxide is 0.67g/t and average grade of fresh ore is 0.90g/t. Inferred Mineral Resource in business plan as at 31 December 2013 **Tonnes** million Grade **Contained gold Sunrise Dam Tonnes** Moz **Comment** Underground 4.56 3.32 15.16 0.49 Vogue

Total

4.56 3.32 15.16 0.49 Inferred Mineral Resource in the business plan includes the Vogue mineralisation, which will be drilled during 2014 with the aim of increasing the confidence in the area to bring it into Ore Reserve and then into production. 2.82 -0.36 -0.10 0.11 0.47 0.27 0.02 0.00 3.23 Ounces (millions) 3.3 3.2 3.1 3.0 2.9 2.8 2.7 2.6 2.5 2.4 2.3 2.2 2012 Depletion Gold price Cost Exploration Methodology Other Acquisition/ Disposal 2013 **Sunrise Dam** Mineral Resource reconciliation: 2012 to 2013 1.18 -0.370.04 0.00 0.00

0.31

0.01

0.00

1.18

Ounces

(millions)

1.20

1.15

1.10

1.05

1.00

0.95

0.90

0.85

0.80

0.75

2012

Other

2013

Sunrise Dam

Ore Reserve reconciliation: 2012 to 2013

Deple-

tion

Model

change

Economics

New

ounces

from

Projects

Scope

Change

Acquisition/

Disposal

MINERAL RESOURCE AND ORE RESERVE REPORT

2013

124

```
0.00 0.25 0.50
0.75 1.00 1.25 1.50 1.75 2.00 2.25 2.50 2.75 3.00
Tonnes
above
cut-off
(millions)
Average
grade
above
cut-off (g/t)
Cut-off grade (g/t)
4.0
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
18
16
14
12
10
8
6
4
2
0
Tonnes above cut-off
Ave grade above cut-off
Sunrise Dam
Grade tonnage curve – Surface (metric)
0
2
3
4
5
6
7
8
9
10
Tonnes
above
cut-off
(millions)
Average
```

grade

above cut-off (g/t) Cut-off grade (g/t) 18 16 14 12 10 8 6 4 2 0 120 100 80 60 40 20 Tonnes above cut-off Ave grade above cut-off **Sunrise Dam Grade tonnage curve – Underground (metric)** Ore Reserve below infrastructure There is no Ore Reserve reported below infrastructure. **COMPETENT PERSONS Category** Category Competent person **Professional** organisation **Membership** number Relevant experience Qualification Surface Mineral Resource Fraser Clark MAusIMM 226 390 12 years BSc Hons (Geology) Postgraduate Certificate in Geostatistics Ore Reserve Salih Ramazan MAusIMM 222 870

11 years

BSc (Mining Engineering) MSc (Engineering) ME (Geostatistics) PhD (Applied Science) Underground Mineral Resource Fraser Clark MAusIMM 226 390 12 years BSc Hons (Geology) Postgraduate Certificate in Geostatistics Ore Reserve Peter Merry MAusIMM 306 163 32 years BEng (Mining) GDE (Mining Engineering) WITS Sunrise Dam Geological Model – Looking East 125 **AUSTRALASIA SECTION FOUR SECTION FIVE SECTION SIX**

SECTION THREE SECTION TWO SECTION ONE

TROPICANA

LOCATION

The Tropicana Gold Mine is located 330km east-northeast of Kalgoorlie, Western Australia. The mineral deposit is hosted in the

eastern margin of the Yilgarn Craton. Tropicana is the first deposit discovered in this remote portion of the Great Victoria Desert which

is widely regarded as an emerging greenfields gold province. Open pit mining commenced during 2012, with first gold production

occurring during September 2013.

Together, the Tropicana, Havana South and Boston Shaker deposits define a northeast trending mineralised corridor,

approximately 1.2km wide and 5km long, that has been tested to vertical depth of over 1,200m. The Mineral Resource remains open

down-dip from Tropicana, Havana and Boston Shaker deposits and has potential for extension to the north and south. Neither the

immediate metamorphic host rocks nor the mineralised zones are exposed at surface due to the presence of widespread younger

cover sequences, between 0.5m and 15m thick.

GEOLOGY

The Tropicana deposit comprises a mineralised zone up to 50m thick, predominantly hosted in quartzo-feldspathic gneiss with

a garnet gneiss dominated hangingwall package. The mineralisation is comprised of subordinate thin (3m to 5m), discontinuous

mineralised lenses that typically return intercepts of >0.5g/t gold. The Havana deposit comprises a lower, laterally continuous, higher-

grade lode up to 50m thick that is overlain, in the central and southern parts of the proposed pit, by stacked, typically lower-grade

and thinner (up to 25m thick) mineralised zones. Havana is also dominantly hosted in quartzo-feldspathic gneiss, again with a garnet

gneiss dominated hangingwall.

Mineralisation is accompanied by pyrite (2% to 8%) with accessory pyrrhotite, chalcopyrite and other minor sulphides and tellurides.

The gold mineralisation is related to shear planes that postdate the main gneissic fabric developed during peak granulite-facies

metamorphism.

EXPLORATION

As part of a wider restructure within AngloGold Ashanti during 2013, the Tropicana Brownfields and Greenfields Exploration teams were

merged. Exploration budgets will still distinguish between near-mine (Brownfields) exploration and regional (Greenfields) exploration

programmes – reflecting the different strategic goals of the respective tenement packages.

Brownfields exploration will continue to pursue to delineation of new potential open-pit satellite Mineral Resource whilst Greenfields

exploration will continue to focus on the discovery of new stand-alone deposits in the district. The proposed Brownfields exploration

programme comprises a mix of advanced and early stage work programmes including DD, RC and AC drilling. The planned drilling is

designed to test targets within a 60km radius of Tropicana.

PROJECTS

The Havana Deeps Pre-Feasibility study indicates that technically viable projects exists, with extraction from either a large open pit or

underground mine, or a combination of both. Further work will be completed during 2014 to enhance the economics of the project by

investigating a number of alternative mining methods.

MINERAL RESOURCE

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

Type of drilling Mine/Project

Category

Spacing

m (-x-)

Diamond

RC

Blast-

hole

Channel

Other

Comments

Tropicana

Measured

25 x 25

-

Indicated

50 x 50

_

Inferred

100 x 100

-

_

Grade/Ore control

10 x 12

MINERAL RESOURCE AND ORE RESERVE REPORT

2013

126

AUSTRALASIA
127
SECTION FOUR
SECTION FIVE
SECTION SIX
SECTION THREE
SECTION TWO
SECTION ONE

Inclusive Mineral Resource as at 31 December 2013 **Tonnes** Grade **Contained gold** Tropicana Category million g/t Tonnes Moz Boston Shaker - BS01 Measured Indicated 2.38 2.19 5.22 0.17 Inferred 0.07 2.58 0.17 0.01 Total 2.45 2.20 5.39 0.17 **Boston Shaker Shell** Measured Indicated 2.53 2.72 6.87 0.22 Inferred 2.02 3.14 6.35 0.20

Total 4.55 2.91

13.22 0.43 Tropicana Starter Pit – TP01 Measured 4.78 2.00 9.54 0.31 Indicated 0.17 1.01 0.17 0.01 Inferred 0.00 1.04 0.01 0.00 Total 4.95 1.96 9.72 0.31 Tropicana – TP02 Measured 3.91 1.87 7.30 0.23 Indicated 5.98 1.90 11.36 0.37 Inferred 0.02 1.81 0.03 0.00 Total 9.90 1.89 18.70 0.60 Tropicana Shell Measured 0.12 1.90 0.22 0.01

Indicated

3.19 1.80 5.74 0.18 Inferred 1.47 1.99 2.92 0.09 Total 4.77 1.86 8.88 0.29 Havana Starter Pit - HA01 Measured 6.49 2.31 14.97 0.48 Indicated 0.32 1.29 0.41 0.01 Inferred Total 6.81 2.26 15.39 0.49 Havana Stage 3 – HA03 Measured 1.54 1.90 2.94 0.09 Indicated 4.25 1.86 7.93 0.26 Inferred 0.00 1.18 0.00

0.00

Total 5.80 1.87 10.88 0.35 Havana Stage 4 and 5 – HA05 Measured 0.69 2.74 1.88 0.06 Indicated 5.66 1.75 9.90 0.32 Inferred 0.00 2.92 0.00 0.00 Total 6.35 1.86 11.78 0.38 Havana Stage 6 – HA06 Measured Indicated 7.11 1.41 10.05 0.32 Inferred 0.01 2.32 0.03 0.00 Total 7.12 1.42 10.08 0.32 Havana Stage 6 Shell Measured

Indicated 2.24 1.36 3.05 0.10 Inferred 0.27 1.63 0.44 0.01 Total 2.51 1.39 3.48 0.11 Havana Shell Measured 0.08 3.04 0.23 0.01 Indicated 17.97 2.05 36.85 1.18 Inferred 0.18 2.45 0.43 0.01 Total 18.22 2.06 37.51 1.21 Stockpile (Open pit) Measured 2.43 1.69 4.10 0.13 Indicated

Inferred

385

Total 2.43 1.69 4.10 0.13 Underground Measured Indicated 1.66 3.58 5.93 0.19 Inferred 4.26 3.07 13.07 0.42 Total 5.92 3.21 19.00 0.61 Tropicana Total 81.77 2.06 168.13 5.41 **TROPICANA** continued

MINERAL RESOURCE AND ORE RESERVE REPORT

2013 128

Exclusive Mineral Resource as at 31 December 2013 **Tonnes** Grade **Contained gold Tropicana** Category million g/t **Tonnes** Moz Measured 2.59 0.68 1.76 0.06 Indicated 32.49 1.88 61.13 1.97 Inferred 8.30 2.83 23.46 0.75 Tropicana Total 43.38 1.99 86.35 2.78 The Exclusive Mineral Resource includes Inferred Mineral Resource at depth in the designed pits, as well as the deeper portions of the Havana Deeps underground Mineral Resource, which are not yet drilled to a level of confidence to establish an Ore Reserve. Mineral Resource below infrastructure as at 31 December 2013 **Tonnes** Grade **Contained gold Tropicana** Category million g/t **Tonnes** Moz Measured

_

Indicated

1.66

3.58

5.93

0.19

Inferred

4.26

3.07

13.07

0.42

Tropicana

Total

5.92

3.21

19.00

0.61

129

AUSTRALASIA

SECTION FOUR

SECTION FIVE

SECTION SIX

SECTION THREE

SECTION TWO

SECTION ONE

5.52 -0.23 0.00 0.00 0.00 0.12 0.00 0.00 5.41 Ounces (millions) 5.55 5.50 5.45 5.40 5.35 5.30 5.25 5.20 2012 Depletion Gold price Cost Exploration Methodology Other Acquisition/ Disposal 2013 **Tropicana** Mineral Resource reconciliation: 2012 to 2013 2.73 -0.13 0.01 0.00 0.00 -0.01 0.03 0.00 2.63 Ounces (millions) 2.74 2.72 2.70

2.682.64

2.62 2.60 2.58 2.56 2012 Other 2013 **Tropicana** Ore Reserve reconciliation: 2012 to 2013 Depletion Model change **Economics** New ounces from **Projects** Scope Change Acquisition/ Disposal **TROPICANA** continued **ORE RESERVE** Ore Reserve as at 31 December 2013 **Tonnes** Grade Contained gold Tropicana Category million g/t **Tonnes** Moz Boston Shaker - BS01 Proved Probable 2.25 2.28 5.15 0.17 Total 2.25 2.28

5.15

0.17 Tropicana Starter pit – TP01 Proved 4.38 2.13 9.32 0.30 Probable 0.13 1.23 0.16 0.01 Total 4.51 2.10 9.48 0.30 Tropicana – TP02 Proved 3.56 2.00 7.10 0.23 Probable 5.19 2.10 10.93 0.35 Total 8.75 2.06 18.03 0.58 Havana Starter Pit - HA01 Proved 5.68 2.56 14.56 0.47 Probable 0.23 1.60 0.36 0.01 Total 5.90 2.53 14.92 Havana Stage 3 – HA03

Proved

1.35 2.10 2.83 0.09 Probable 3.60 2.10 7.57 0.24 Total 4.94 2.10 10.40 0.33 Havana Stage 4 and 5 – HA05 Proved 0.61 3.02 1.84 0.06 Probable 4.54 2.04 9.29 0.30 Total 5.15 2.16 11.13 0.36 Havana Stage 6 – HA06 Proved Probable 5.02 1.77 8.90 0.29 Total 5.02 1.77 8.90 0.29 Stockpile (Open pit) Proved 1.85 2.04

3.79

0.12 Probable Total 1.85 2.04 3.79 0.12 Tropicana Total 38.39 2.13 81.79 2.63 Ore Reserve modifying factors **31 December 2013 Tropicana** Gold price AUD/oz **Cut-off** value g/t Au **Dilution Dilution** g/t % **RMF** (based tonnes) **RMF** (based on g/t) % **MRF** (based on tonnes) % **MRF** (based on g/t)

MCF % MetRF

% Boston Shaker, Havana Stage 3, 4, 5 and 6, Havana Starter pit, Stockpile (Open pit), Tropicana pit and Tropicana Starter pit. 1,249 0.70 100.0 100.0 100.0 100.0 100.0 90.0 Recovery changes by region and by material type. Cut-offs change by material type. MINERAL RESOURCE AND ORE RESERVE REPORT 2013

130

Inferred Mineral Resource in business plan

Inferred Mineral Resource within the open pit design is included in the business plan, but makes up only a small proportion (<1%) of

the total mineralised material.

Ore Reserve below infrastructure

There is no Ore Reserve reported below infrastructure.

COMPETENT PERSONS

Category

Competent Person

Professional

organisation

Membership

number

Relevant

experience

Qualification

Mineral Resource

Mark Kent

MAusIMM

203 631

16 years

BSc Hons (Geology)

Master of Geostatistics

Ore Reserve

Salih Ramazan

MAusIMM

222 870

11 years

BSc (Mining Engineering)

MSc (Engineering)

ME (Geostatistics)

PhD (Applied Science)

0.00

0.25

0.50

0.75

1.00

1.25

1.50

1.75

2.00

Tonnes

above cut-off

(millions)

Average

grade

above

cut-off (g/t)

Cut-off grade (g/t)

4.0

3.5

```
3.0
2.5
2.0
1.5
1.0
0.5
0.0
800
700
600
500
400
300
200
100
0
Tonnes above cut-off
Ave grade above cut-off
Tropicana
Grade tonnage curve – Surface (metric)
0
2
3
4
5
6
7
8
9
10
Tonnes
above
cut-off
(millions)
Average
grade
above
cut-off (g/t)
Cut-off grade (g/t)
11
10
9
8
7
6
5
4
3
2
```

7 6 5 4 3 2 0 Tonnes above cut-off Ave grade above cut-off Tropicana **Grade tonnage curve – Underground (metric)** 131 **AUSTRALASIA SECTION FOUR SECTION FIVE SECTION SIX** SECTION THREE **SECTION TWO SECTION ONE**

AMERICAS SECTION

FIVE

P132-183

The Americas is an important growth area for AngloGold Ashanti, with operations in Argentina, Brazil and the United States and projects in Colombia.

AM

MINERAL RESOURCE AND ORE RESERVE REPORT

2013

132

AngloGold Ashanti has the Cripple Creek & Victor (CC&V, 100%) mine in the USA, the Cerro Vanguardia SA mine in Argentina (92.5%),

AngloGold Ashanti Córrego do Sítio Mineração operations and the Mineração Serra Grande, both in Brazil (both 100%).

The main projects are in Colombia with additional projects and future mine expansions in progress in the USA, Argentina and Brazil

maintaining and upgrading the current production profile.

As at 31 December 2013, the total attributable Mineral Resource (inclusive of the Ore Reserve) for the Americas region was 61.06Moz

(2012: 61.59Moz) and the attributable Ore Reserve, 8.82Moz (2012: 11.01Moz). This is equivalent to around 26% and 13% of the group's

Mineral Resource and Ore Reserve respectively. AngloGold Ashanti also conducts an extensive greenfield exploration programme across

the Americas, most notably in Colombia, where it holds a significant land position and has made two greenfield exploration discoveries

– Gramalote and La Colosa – which together account for 31.14Moz of the Americas' Inclusive Mineral Resource. Combined production

from these operations increased by 5% to 1.0Moz ounces of gold in 2013, equivalent to 24% of group production. *Inclusive Mineral Resource*

as at 31 December 2013

Tonnes

Grade

Contained gold

Americas

Category

million

g/t

Tonnes

Moz

Measured

293.87

1.06

310.12

9.97

Indicated

277.67

1.26

349.90

11.25

Inferred

1,268.53

0.98

1,239.20

39.84

Total

1,840.07

1.03

1,899.22

61.06

Exclusive Mineral Resource

as at 31 December 2013

Tonnes
Grade
Contained gold
Americas
Category
million
g/t
Tonnes
Moz
Measured
152.12
0.95
145.07
4.66
Indicated
203.04 1.04
211.91
6.81
Inferred
1,265.98
0.97
1,225.98
39.42
Total
1,621.13
0.98
1,582.96
50.89
Ore Reserve
as at 31 December 2013
Tonnes
Grade
Contained gold
Americas
Category
million
g/t
Tonnes
Moz Proved
140.68
1.05
148.17
4.76
Probable
78.25
1.61
1.01

126.06 4.05 Total

218.93 1.25 274.23 8.82 **OVERVIEW** Moz 30 25 20 15 10 5 0 December 2012 December 2013 **Americas Inclusive Mineral Resource – attributable** Per operation/project Moz 7 6 5 4 3 2 0 December 2012 December 2013 **Americas Ore Reserve – attributable** Per operation/project 133 **AMERICAS SECTION FOUR SECTION FIVE SECTION SIX SECTION THREE SECTION TWO SECTION ONE**

COUNTRY OVERVIEW

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 a 7.5% interest in the mine, with the remaining 92.5% belongs to AngloGold Ashanti.

MINERAL RESOURCE ESTIMATION

The mineralisation boundaries for each geological entity (veins, stockwork and wall rock) are defined from the detailed logging of

all geological drill holes. This data is validated and the information is then used to create a three dimensional model.

This model is

subsequently overlain with a 5m x 25m x 5m block model.

Volumetric measurements of the deposit are subsequently computed in the system using the relevant block dimensions. Ordinary

Kriging is used to perform the grade interpolation and field tests are conducted to determine appropriate in-situ densities.

Conditional Simulations are performed in the main deposits for uncertainty assessment and the Mineral Resource is then classified into

the Measured, Indicated and Inferred Mineral Resource categories according to internal AngloGold Ashanti guidelines.

ORE RESERVE ESTIMATION

The appropriate Mineral Resource models are used as the basis for the Ore Reserve. 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.

It is important to emphasise the importance of silver during the optimisation of the pits, since silver is a significant by-product at Cerro

Vanguardia. The ratio of silver to gold commonly ranges from 10 to 15g/t of silver per 1g/t of gold.

Cerro Vanguardia uses conventional open-pit mining with a doubled bench height of 20m and underground methods.

Open-pit

mining is distributed between multiple operating pits, typically three to five at any one time; depending on the plant feed requirements.

Currently, there are three underground mines which are operating simultaneously. Waste dumps and heap-leach stockpiles are located

adjacent to each pit. Plant grade ore feed is trucked to either the long-range or the short-range stockpiles in order to smooth out the

head grades and avoid recovery losses due to higher than planned silver grades

ARGENTINA

MINERAL RESOURCE AND ORE RESERVE REPORT

2013

134

LOCATION

Cerro Vanguardia is a gold-silver mine located in Santa Cruz Province, southern Patagonia, Argentina, approximately 110km north-

northwest of the coastal town of San Julián. The mining lease encompasses an area of approximately 540km2 . Access to the area is

by aircraft from Buenos Aires to Comodoro Rivadavia or Rio Gallegos and subsequently by road to the mine site.

The ore bodies comprise a series of hydrothermal vein deposits (low-sulphidation deposit) containing gold and large quantities of silver,

produced as a by-product. Cerro Vanguardia uses conventional open-pit mining with a doubled bench height of 20m and underground

methods. Open-pit mining is distributed between multiple operating pits, typically three to five at any one time; depending on the plant

feed requirements. Currently, there are three underground mines which are operated at same time. The underground workings, which

began production in 2010, account for around 20% of total CVSA production.

Waste dumps and heap-leach stockpiles are located adjacent to each pit. Plant grade ore feed is trucked to either the long-range or

the short-range stockpiles in order to smooth out the head grades and avoid recovery losses due to higher than planned silver grades.

The metallurgical plant, CIL process, has a daily capacity of 3,000 tonnes and includes a cyanide recovery facility. The new heap-leach

facility started the production in the last quarter of 2012.

GEOLOGY

Cerro Vanguardia is located in the core of the 60,000km2 Deseado Massif, one of the most-extensive volcanic complexes in southern

Patagonia, Argentina. The Deseado Massif is an extensive rhyolite province of Middle to Upper Jurassic age deposited over Paleozoic

low-grade metamorphic basement rocks. These rocks are exposed in erosional windows through overlying Cretaceous sediments

and Tertiary to Quaternary basalts.

The Middle to Upper Jurassic ignimbrites and volcanic rocks from Chon Aike Formation hosts a low-sulphidation epithermal type

gold and silver deposit. The thickness of the ignimbrite sequence is estimated to have exceeded 1,000m, but some lateral variations

have been identified across the district. Epithermal Au-Ag bearing structures cut across all Jurassic rocks in the stratigraphy. The two

main ignimbrite units, Masiva-Lajosa and Granosa, host the majority of mineralised veins. The Masiva-Lajosa ignimbrite occurs at the

top of the sequence whilst the Granosa ignimbrite occurs towards the bottom. These two ignimbrites are separated by two thinner,

polymictic ignimbrite units (Brechosa and Brechosa Base) and a sequence of stratified crystal to ash-rich tuffs (Estratificada unit). The

base of the sequence is a mixed unit of stratified ignimbrite intercalated with fine-grained tuffs (Estratificada Inferior ignimbrite)

The mineralisation is concentrated in steeply-dipping quartz veins that cut the flat-lying ignimbrites and volcaniclastic rocks. The Cerro

Vanguardia district contains around 100 gold and silver-bearing epithermal veins for a cumulative exposed vein strike extension of

more than 240km. Fifty seven veins are currently known to contain economic gold and silver mineralisation.

All veins at Cerro Vanguardia consist mainly of quartz and adularia containing minor electrum, native gold, silver sulphides and native

silver as fine-grained disseminations. Vein textures are mainly characterised by colloform-crustiform banding, pseudomorphic quartz-

lattice textures, massive-to-vuggy quartz veins and vein breccias. 40Ar/39Ar dating on adularia from the Osvaldo Diez vein yielded

ages of 153.4 \pm 1.46 Ma, 152.9 \pm 2.75 Ma and 155.1 \pm 3.0 Ma, while the age of the thick sequence of ignimbrites hosting the veins

has been dated between 166 to 150 Ma.

EXPLORATION

The objectives for the 2013 drilling programme were as follows:

increase the Mineral Resource;

•

add more low-grade mineralisation for heap-leach operation; and

•

identify and define new exploration targets based on geological mapping and local ground magnetic surveys. The 2013 exploration programme included 35,126m of DD, 25,562m of RC and more than 3,000m of trenching and channel sampling.

Exploration this year put emphasis on the search for and development of the Mineral Resource of the northern border of the main

central zone and the southern part of the north zone. Localised ground magnetic surveys were used to target some of the drilling in

those areas. The main veins drilled during 2013 were Serena, Luciana, Melisa, Vanguardia 1A, Vanguardia 2 and Vanguardia 3. Serena

vein is located on the northern border of the central area. The finding of new blind Serena ore shoots was an example of successful

exploration following integration of regional and local geological and geophysical information. The newly-found mineralisation at this

part of Serena vein starts at about 70m below surface and extends down dip for more than 200m. The Luciana vein is located in

CERRO VANGUARDIA

135

AMERICAS

SECTION FOUR

SECTION FIVE

SECTION SIX

SECTION THREE

SECTION TWO

SECTION ONE

CERRO VANGUARDIA

the north of the central area and mineralisation is associated with several quartz veins, yielding well-mineralised intervals to a depth

of 300m. Vanguardia 1A, Vanguardia 2 and Vanguardia 3 are located in the northern area, and mineralisation extends from surface

to a depth of approximately 200m. These three veins have multiple branches and represent good heap-leach material targets. The

additional Mineral Resource generated was separated into full-grade vein material and low-grade heap-leach material. PROJECTS

Cerro Vanguardia currently mines from multiple open pits that are up to 200m deep. The highest grade and thickest veins were mined

first to maximise the project's net present value. Mining costs and strip ratios have increased as grades have decreased over the years.

Higher gold prices have extended the life of Cerro Vanguardia, but at higher stripping ratios and operating costs.

The recent startup of the heap leach turned low-grade material associated with some veins into new exploration targets. A study to

start mining open pits of exclusively low-grade ore for heap leach is ongoing.

Mapping and exploration also focused on discovering domes and other potential bulk-tonnage, low-grade deposits not previously

investigated within the district. A northern extension of the 1:5000 geological map of the deposit was completed. This mapping was

part of a three-year plan to extend the district map so as to improve the geological knowledge and the understanding of the volcanic

units hosting the mineralisation.

The underground mining at Cerro Vanguardia complements the current open-pit production. The tonnage from the open pits will

decrease to an average of 800,000tpa as the highest stripping ratio open pits are replaced by underground operations. The underground

mines are expected to increase their production to 230,000tpa. There are currently two veins being mined from underground: Mangas

and Osvaldo Diez, and several more projects planned such as Atila, Cuncuna, Liliana, Loma del Muerto, Natalia, Verónica and Zorro.

MINERAL RESOURCE

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

Type of drilling

Mine/Project

Category

Spacing

m (-x-)

Diamond

RC

Blast-hole Channel

Other

Comments

Cerro Vanguardia

Measured

12 x 5, 3 x 15

_

_

Indicated 40 x 40 Inferred 80 x 80 Grade/Ore Control 12 x 5, 3 x 15 Inclusive Mineral Resource as at 31 December 2013 **Tonnes** Grade **Contained gold** Cerro Vanguardia Category million g/t **Tonnes** Moz Vein Resources (Open pit) Measured 1.75 5.94 10.42 0.33 Indicated 11.47 5.83 66.92 2.15 Inferred 2.05 5.16 10.58 0.34 Total 15.28 5.76 87.92 2.83 Heap leach Measured

11.02 0.59

6.55 0.21 Indicated 16.76 0.50 8.33 0.27 Inferred 3.26 0.49 1.60 0.05 Total 31.04 0.53 16.48 0.53 Vein Resources (Underground) Measured 0.19 7.62 1.47 0.05 Indicated 2.00 9.92 19.82 0.64 Inferred 0.35 7.82 2.75 0.09 Total 2.54 9.45 24.04 0.77 Cerro Vanguardia Total 48.86 2.63 128.44 MINERAL RESOURCE AND ORE RESERVE REPORT

2013 136

AMERICAS
137
SECTION FOUR
SECTION FIVE
SECTION SIX
SECTION THREE
SECTION TWO
SECTION ONE

CERRO VANGUARDIA

continued

Exclusive Mineral Resource

as at 31 December 2013

Tonnes

Grade

Contained gold

Cerro Vanguardia

Category

million

g/t

Tonnes

Moz

Measured

3.62

2.29

8.30

0.27

Indicated

26.68

2.08

55.58

1.79

Inferred

5.66

2.64

14.93

0.48

Cerro Vanguardia

Total

35.95

2.19

78.80

2.53

The Exclusive Mineral Resource is primarily located between the pit design and the Mineral Resource shell and exists due to the

difference in the economic parameters that have been used. In marginal deposits, where the grades of Au and Ag are above the

Mineral Resource cut-off but below the Ore Reserve cut-off, significant zones of Exclusive Mineral Resource will be generated. Very

deep Mineral Resource will also not be converted in the near term to Ore Reserve and is therefore listed as Exclusive Mineral Resource.

Inclusive Mineral Resource by product: Silver (Ag)

as at 31 December 2013

Tonnes

Grade

Contained silver

Cerro Vanguardia

Category

million

g/t

Tonnes

Moz

Measured

12.97

25.82

334.88

10.77

Indicated

30.23

62.40

1,886.25

60.64

Inferred

5.66

66.98

379.00

12.19

Cerro Vanguardia

Total

48.86

53.22

2,600.13

83.60

Mineral Resource below infrastructure

There is no Mineral Resource reported below infrastructure.

MINERAL RESOURCE AND ORE RESERVE REPORT

2013

138

Ore Reserve as at 31 December 2013 **Tonnes** Grade **Contained gold** Cerro Vanguardia Category million g/t **Tonnes** Moz Vein Resources (Open pit) Proved 0.70 6.20 4.37 0.14 Probable 4.40 5.61 24.66 0.79 Total 5.10 5.69 29.03 0.93 Heap leach Proved 9.48 0.58 5.53 0.18 Probable 1.42 0.52 0.73 0.02 Total 10.89 0.58 6.27 Vein Resources (Underground) Proved 0.09 8.18 0.73 0.02 Probable

ORE RESERVE

1.49 8.60 12.81 0.41 Total 1.58 8.57 13.54 0.44 Cerro Vanguardia Total 17.57 2.78 48.84 1.57 Ore Reserve modifying factors **31 December 2013** Cerro Vanguardia Gold price ARS/oz **Cut-off** value g/t Au **Dilution** % **Dilution** g/t % **RMF** (based on tonnes) % **RMF** (based on g/t) % **MRF** (based on tonnes) % **MRF** (based on g/t) **MCF** % **MetRF** %

Heap leach

```
6,186
0.35
100.0
100.0
100.0
100.0
100.0
61.3
Vein Resources (Open pit)
6,186
3.39
45.0
100.0
100.0
97.0
96.0
93.0
94.3
Vein Resources (Underground)
6,186
3.90
30.0
100.0
100.0
97.0
96.0
93.0
94.3
Inferred Mineral Resource in business plan
as at 31 December 2013
Tonnes
million
Grade
g/t
Contained gold
Cerro Vanguardia
Tonnes
Moz
Comment
Vein Resources (Open pit)
0.22
10.70
2.34
0.08
Represents 7% of open pit schedule
Heap leach
0.01
```

Edgar Filing: ANGLOGOLD ASHANTI LTD - Form 6-K
0.71
0.00
0.00
Represents 1% of heap leach schedule
Vein Resources (Underground)
0.30
8.56
2.57
0.08
Represents 15% of underground schedule
Total
0.52
9.38
4.91
0.16
The Inferred Mineral Resource that has been included in the pit design is not included in the Ore Reserve statement.
This Mineral
Resource is normally located in the deep and lateral zones of the Mineral Resource models. In order for ore from the
Inferred Mineral
Resource to be included in the production plan, it must be upgraded by infill drilling.
4.72
-0.25
-0.61
-0.06
0.28
0.04
0.00
0.00
4.13
Ounces
(millions)
4.8
4.7
4.6
4.5
4.4
4.3
4.2
4.1
4.0
3.9
3.8
3.7
2012
Deple-
tion
Gold
price
Cost
Explo-
ration

Methodology Other Acquisition/ Disposal 2013 Cerro Vanguardia Mineral Resource reconciliation: 2012 to 2013 2.03 -0.28 0.09 -0.33 0.00 0.06 0.00 0.00 1.57 Ounces (millions) 2.1 2.0 1.9 1.8 1.7 1.6 1.5 1.4 2012 Other 2013 Cerro Vanguardia Ore Reserve reconciliation: 2012 to 2013 Depletion Model change **Economics** New ounces from **Projects** Scope Change Acquisition/ Disposal 139 **AMERICAS SECTION FOUR SECTION FIVE SECTION SIX**

SECTION THREE

SECTION TWO SECTION ONE

```
0
2
4
6
8
10
12
14
16
18
20
Tonnes above
cut-off (millions)
Average
grade
above
cut-off (g/t)
Cut-off grade (g/t)
35
30
25
20
15
10
5
0
3.0
2.5
2.0
1.5
1.0
0.5
0.0
Tonnes above cut-off
Ave grade above cut-off
Cerro Vanguardia
Grade tonnage curve – Underground (metric)
0
1
2
3
4
5
6
7
8
9
10
Tonnes
above
```

cut-off

(millions) Average grade above cut-off (g/t) Cut-off grade (g/t) 18 16 14 12 10 8 6 4 2 16 14 12 10 8 6 4 2 0 Tonnes above cut-off Ave grade above cut-off Cerro Vanguardia **Grade tonnage curve – Surface (metric)** CERRO VANGUARDIA continued Ore Reserve by-product: Silver (Ag) as at 31 December 2013 **Tonnes** Grade **Contained silver** Cerro Vanguardia Category million g/t **Tonnes** Moz Proved 10.27 20.44 209.93 6.75 Probable 7.30 97.24 710.08

22.83

Cerro Vanguardia Total 17.57 52.36 920.00 29.58 Ore Reserve below infrastructure There is no Ore Reserve reported below infrastructure. **COMPETENT PERSONS** Category **Competent Person Professional** organisation Membership number Relevant experience Qualification Mineral Resource Juan Paredes MAusIMM 227 738 17 years PhD (Geology) Ore Reserve Jorge Sanguin MAusIMM 310 925 21 years BEng (Mining)

MINERAL RESOURCE AND ORE RESERVE REPORT

2013 140

COUNTRY OVERVIEW

AngloGold Ashanti's operations in Brazil comprise AngloGold Ashanti Córrego do Sítio Mineração (AGA Mineração) in the Quadrilátero

Ferrífero, Minas Gerais and Mineração Serra Grande in Goiás state. AGA Mineração consists of several operations, namely Cuiabá,

Lamego, Córrego do Sítio as current operating mines and Nova Lima Sul as a conceptual project.

AGA Mineração

Cuiabá mine is the largest gold producer in Brazil, and has been in operation since 1984. The mine is hosted in a greenstone

belt environment and consists of gold mineralisation in massive to disseminated sulphides (mainly pyrite, subordinate arsenopyrite

and pyrrhotite). The main mineralisation host rock is Banded Iron Formation (BIF), sealed by graphite schists and metabasic rocks

alternating in the hangingwall and footwall depending on the position in the folded structure. Mining levels are 60m to 66m apart

vertically, the deepest development at Cuiabá is currently at 1,111m below surface. Shaft facilities are currently at the last loading level

at Level 11 (about 1,200m depth).

Córrego do Sítio is a new mine, comprising two sulphide underground operations, currently Cachorro Bravo, Laranjeiras and Carvoaria

located at CdSI and Sangue de Boi located at CdSII, and open-pit oxide operations (currently Rosalino, Carvoaria and Laranjeiras).

The entire Córrego do Sítio complex comprises 23 mineral deposits reported as Mineral Resource plus some exploration targets being

developed. Currently the Córrego do Sítio complex is the largest Mineral Resource within the Brazilian assets. In Brazil's world-famous

Iron Quadrangle, the Nova Lima Sul project consists of the Raposos Mine, Morro da Glória Mine (both underground mines) and Luzia

da Mota oxide Mineral Resource.

Serra Grande

Since July 2012, Mineração Serra Grande S.A (Serra Grande) has been a wholly-owned AngloGold Ashanti company. The mine

complex is located in the municipality of Crixás, in the central portion of Brazil, 400km from the Capital, Brasília, and about 350km

from the state capital of Goiás, Goiânia.

MINERAL RESOURCE ESTIMATION

The Cuiabá dataset consists of channel samples and drill-hole samples. The 3D modelling and estimation is performed with two

estimation domains, namely the thick mineralisation, consisting of Fonte Grande Sul (FGS) and Serrotinho (SER), and the narrow-vein

domain consisting of Balancão, Galinheiro and Canta Galo. All channel and drill-hole samples are used in the 3D geological models

and identify rock types in order to incorporate lithological proportions into the grade estimates. Conditional Simulation is applied to

estimate the uncertainty in the block models and classify the Mineral Resource into Measured, Indicated and Inferred, following a

standard internal AngloGold Ashanti method.

Lamego shows similar rock assemblage but higher structural complexity than Cuiabá. The BIF which contains the mineralisation is

more structurally deformed and is sometimes described as 'metachert'. Lamego is part of the Cuiabá complex – they are 7km apart,

with existing infrastructure to truck the ore by sealed road to Cuiabá. The Lamego run-of-mine (ROM) product is treated at Cuiabá's

gravity gold plant. The sulphide concentrates from both mines are transported to the Queiroz plant complex for the last process of the

metallurgical recovery which consists of a roaster, which produces gold and sulphuric acid. The estimation method applied at Lamego

is Ordinary kriging and classification of the Mineral Resource is also based on simulation techniques.

CdS mineralisation occurs in a greenstone belt geological environment, associated with quartz and sulphides (mainly arsenopyrite) in

a structurally-controlled corridor approximately 16 - 20km in strike length and about 500m vertical extent. The Mineral Resource is

estimated by Ordinary Kriging, and classified using geostatistical Conditional Simulation techniques.

BRAZIL

141

AMERICAS

SECTION FOUR

SECTION FIVE

SECTION SIX

SECTION THREE

SECTION TWO

SECTION ONE

Raposos Mine in the Nova Lima project was estimated by the geostatistical UC technique, and both Morro da Glória and Luzia da

Mota were estimated by Ordinary Kriging.

The Serra Grande Mineral Resource is estimated by Ordinary Kriging.

ORE RESERVE ESTIMATION

The gold price, projected operational performance and costs as well as metallurgical recoveries are taken into consideration in

determining the Ore Reserve. Mining parameters such as the mining method, minimum mining width, MCF, dilution and recovery are

all applied in the process.

BRAZIL

continued

MINERAL RESOURCE AND ORE RESERVE REPORT

2013

142

OVERVIEW

The wholly-owned AGA Mineração mining complex is located in south-eastern Brazil, in the state of Minas Gerais. It lies south and

east of the city of Belo Horizonte and has operations in the municipalities of Nova Lima, Sabará and Santa Bárbara. This area hosts

numerous other historic and current gold mining operations, as well as open-pit limestone and iron ore operations. Reorganisation of AGA Mineração was completed during the first half of 2010 and the new company is called AngloGold Ashanti

Córrego do Sítio Mineração (commonly referred to as AGA Mineração). The aim was to capture the operating and financial synergies

of the numerous mining operations in this historical mining district. The company now encompasses the mining operations at Cuiabá,

Lamego, Queiroz, Córrego do Sítio and the former São Bento Mine, which is part of the Córrego do Sítio Complex. AGA Mineração has mining rights over 61,864ha and ore is sourced from the Cuiabá and Lamego underground mines and processed

at the Cuiabá and Queiroz plants, while the Córrego do Sítio open pit mine has a heap-leaching facility. A conceptual study on the

Nova Lima Sul project, which involves the re-opening of the mothballed Raposos mine, is in progress. All these operations are primarily

gold mines, while sulphur (for the production of sulphuric acid) is a by-product of the Cuiabá and Lamego mining operations.

In 2013 over than US\$19 million was invested in exploration aiming to add Mineral Resource and convert Mineral Resource to

Ore Reserve, as well as improving the understanding of geological potential. More than 91,000m was drilled from underground

and surface.

MINERAL RESOURCE

Inclusive Mineral Resource

as at 31 December 2013

Tonnes

Grade

Contained gold

AGA Mineração

Category

million

g/t

Tonnes

Moz

Measured

11.25

6.11

68.76

2.21

Indicated

16.68

5.42

90.47

2.91

Inferred

37.97

5.60

212.73 6.84 AGA Mineração Total 65.90 5.64 371.95 11.96 Exclusive Mineral Resource as at 31 December 2013 **Tonnes** Grade Contained gold AGA Mineração Category million g/t **Tonnes** Moz Measured 6.29 6.08 38.27 1.23 Indicated 9.63 5.21 50.15 1.61 Inferred 37.68 5.62 211.56 6.80 AGA Mineração Total 53.59 5.60 299.98 9.64 Mineral Resource below infrastructure as at 31 December 2013 **Tonnes** Grade Contained gold AGA Mineração Category million g/t **Tonnes** Moz

Measured 0.78 4.74 3.72 0.12 Indicated 11.30 4.91 55.44 1.78 Inferred 35.15 5.45 198.69 6.39 AGA Mineração Total 47.23 5.46 257.85 8.29 Inclusive Mineral Resource by-product: Sulphur (S) as at 31 December 2013 **Tonnes** Grade **Contained Sulphur** AGA Mineração Category million %S Mt Pounds million Measured 6.39 5.4 0.34 757.00 Indicated 7.60 5.6 0.43 941.00 Inferred 12.96 6.3 0.82 1,805.00 AGA Mineração Total 26.95 5.9

1.59

3,502.00
AGA MINERAÇÃO
143
AMERICAS
SECTION FOUR
SECTION FIVE
SECTION SIX
SECTION THREE
SECTION TWO

SECTION ONE

ORE RESERVE

Ore Reserve

as at 31 December 2013

Tonnes

Grade

Contained gold

AGA Mineração

Category

million

g/t

Tonnes

Moz

Proved

4.98

5.08

25.33

0.81

Probable

7.85

4.58

35.97

1.16

AGA Mineração

Total

12.84

4.78

61.30

1.97

Ore Reserve by-product: Sulphur (S)

as at 31 December 2013

Tonnes

Grade

Contained Sulphur

AGA Mineração

Category

million

%S

Mt Pounds million

Proved

3.69

4.3

0.16

350.00

Probable

4.86

4.6

0.22

494.00

AGA Mineração

Total

8.56

4.5 0.38 844.00 Ore Reserve below infrastructure as at 31 December 2013 **Tonnes** Grade **Contained gold** AGA Mineração Category million g/t **Tonnes** Moz Proved 0.51 3.62 1.83 0.06 Probable 3.11 4.74 14.74 0.47 AGA Mineração Total 3.62 4.58 16.57 0.53 AGA Mineração Ore Reserve modifying factors and Inferred Mineral Resource in business plan are reported by individual operations in later sections. 11.79 -0.46 -0.11 0.00 0.64 -0.06 0.15 0.00 11.96 Ounces (millions) 12.01 1.9 11.8 11.7 11.6 11.5

11.4

11.3 11.2 11.1 2012 Depletion Gold price Cost Exploration Methodology Other Acquisition/ Disposal 2013 AGA Mineração Mineral Resource reconciliation: 2012 to 2013 2.33 -0.40 0.11 -0.02 0.00 -0.11 0.05 0.00 1.97 Ounces (millions) 2.35 2.30 2.25 2.20 2.15 2.10 2.05 2.00 1.95 1.90 1.85 2012 Other 2013 AGA Minerção Ore Reserve reconciliation: 2012 to 2013 Depletion Model change

Economics

New ounces from **Projects** Scope Change Acquisition/ Disposal AGA MINERAÇÃO continued 0.00 0.25 0.50 1.00 0.75 1.25 1.50 1.75 2.00 2.25 2.50 2.75 3.00 Tonnes above cut-off (millions) Average grade above cut-off (g/t) Cut-off grade (g/t) 6.0 5.5 5.0 4.5 4.0 3.5 3.0 2.5 2.0 9 8 7 6 5 4 3 2 Tonnes above cut-off Ave grade above cut-off AGA Mineração **Grade tonnage curve – Surface (metric)** 0.0 0.5 1.0 1.5 2.0 2.5 3.0

3.5 4.0 4.5 5.0 Tonnes above cut-off (millions) Average grade above cut-off (g/t) Cut-off grade (g/t) 8.0 7.5 7.0 6.5 6.0 5.5 5.0 4.5 4.0 80 75 70 65 60 55 50 45 40 35 30 25 Tonnes above cut-off Ave grade above cut-off AGA Mineração **Grade tonnage curve – Underground (metric)** MINERAL RESOURCE AND ORE RESERVE REPORT 2013

144

AMERICAS
SECTION FOUR
SECTION FIVE
SECTION SIX
SECTION THREE
SECTION TWO
SECTION ONE

LOCATION

Córrego do Sítio (CdS) is located 60km east of the city of Belo Horizonte, which is in the Minas Gerais State of Brazil. The southern

portion of this mining complex is referred to as Córrego do Sítio I (CdS I) whilst the northern portion (formerly known as São Bento)

has been renamed Córrego do Sítio II (CdS II).

The mining method for CdS I mine is sub-level caving with rock fill. Each panel consists of 3 levels, with secondary development of

300m from the cross cut to NE direction and 300m from cross cut to SW direction, and stopes of 15m height. The mining sequence is

predominantly bottom/up, though top/down sequences also apply, depending on the position of the primary development in relation

to the secondary development. According to geotechnical guidance, a sill pillar of 4m height is designed between panels, and 4m rib

pillars are used each 30m along the strike.

The blast drilling for stopes is executed via fandrilling in ascending and descending directions. The loading and hauling operations

occur with front-end loaders (LHDs) of 8 tonnes capacity and articulated trucks of 30 tonnes capacity, with a current production rate

of 42,000 tonnes per month.

GEOLOGY

CdS is located in the eastern part of the lower to middle greenschist facies Archaean Rio das Velhas greenstone belt. The CdS I and

CdS II gold deposits and associated targets are located in a gold trend that extends for about 14km in a north-easterly direction, from

Grota Funda (CdS I areas) in the south to Jambeiro (São Bento/CdS II areas) in the north. The main gold targets and deposits are

distributed over three trends, namely the CdS trend, the Donana Trend and the Cristina Trend.

The CdS deposits consist of narrow northeast/southwest elongated lenses of mineralisation dipping at 20° to 30°. CdS is an orogenic

type deposit and comprises many hydrothermal lodes with quartz veins and low sulphide content disseminated in the wall rocks.

The deposits are narrow, elongated and folded. In general, the mineralisation consists of sericitic zones and quartz veinlets. The gold

occurs as microscopic or sub microscopic inclusions in arsenopyrite and sometimes an iron-antimony sulphide berthierite (FeSb

2 S

4

).

Other typical sulphide minerals are pyrrhotite, pyrite and chalcopyrite.

AGA MINERAÇÃO

continued

Córrego do Sítio

Aeromagnetic survey – Córrego do Sítio

MINERAL RESOURCE AND ORE RESERVE REPORT

2013

146

EXPLORATION

In 2013, more than 34,000m of drilling was executed along CdS trends. The main results came from São Bento mine by the revaluation

of São Bento database augmented by deep-hole drilling that, together, confirmed high-grade mineralisation at depth. Exploration was directed on four fronts:

•

to support the production plan of the mines;

.

to assess high-grade mineralised targets;

•

to evaluate the potential of near mine areas; and

•

to evaluate the full geological potential of the site.

To support the production plan, a drilling campaign was conducted on the oxidised ore, aiming at Mineral Resource conversion from

Inferred Mineral Resource to Indicated Mineral Resource in areas planned to be mined in the next two years. At underground mines

the drilling also was focused on Mineral Resource conversion at Sangue de Boi, Carvoaria, Laranjeiras and Cachorro Bravo orebodies.

To access high-grade zones and the near-mine areas the geological database was reviewed aiming to improve the understanding of

the CdS II (São Bento) potential. Many drill holes were re-logged and re-sampled. The geological model also was reviewed to support

a future drilling plan. To confirm the potential, one deep hole was executed intercepting high-grade mineralisation below 1,600m

depth. At CdS I the review of Carvoaria geological model was initiated to help in locating higher-grade zones.

To assess the full geological potential of the site, an airborne survey (Magnetic-Radiometric) was completed covering whole CdS area.

Based on the geophysical results the structural geology model is being revaluated to generate new exploration targets. MINERAL RESOURCE

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

Type of drilling

Mine/Project

Category

Spacing

m (-x-)

Diamond

RC

Blast-hole Channel

Other

Comments

AGA Mineração –

Córrego do Sítio

Measured 25 x 25

_

_

Indicated

30 x 25,

```
50 x 30,
50 x 50
Inferred
25 x 40,
30 x 25,
40 x 100,
50 x 30,
50 x 50,
100 x 50,
100 x 100,
200 x 200
Grade/Ore Control
                 3 x 3,
5 x 4
147
AMERICAS
SECTION FOUR
SECTION FIVE
SECTION SIX
SECTION THREE
SECTION TWO
SECTION ONE
```

AGA MINERAÇÃO

continued

Córrego do Sítio

Inclusive Mineral Resource

as at 31 December 2013

Tonnes

Grade

Contained gold

Córrego do Sítio

Category

million

g/t

Tonnes

Moz

CdS I (Cachorro Bravo)

Measured

1.21

7.09

8.61

0.28

Indicated

0.60

6.84

4.12

0.13

Inferred

0.62

7.13

4.40

0.14

Total

2.43

7.04

17.12

0.55

CdS I (Carvoaria)

Measured

0.12

12.49

1.50

0.05

Indicated

0.59

11.55

6.77

0.22

Inferred

0.44

8.77

3.84

Total 1.14 10.58 12.11 0.39 CdS I (Secondary Orebodies) Measured 0.01 2.72 0.03 0.00 Indicated 1.13 4.84 5.47 0.18 Inferred 3.93 3.87 15.23 0.49 Total 5.07 4.09 20.72 0.67 CdS I (Laranjeiras) Measured 1.27 5.38 6.85 0.22 Indicated 1.09 5.57 6.09 0.20 Inferred 2.81 6.89 19.33 0.62 Total 5.17 6.24 32.28 1.04 CdS I (Transitional) Measured 0.27

1.75 0.06 Indicated 1.13 4.41 4.96 0.16 Inferred 0.89 2.80 2.49 0.08 Total 2.29 4.03 9.21 0.30 CdS I (Oxides) Measured 1.38 4.10 5.67 0.18 Indicated 1.90 3.83 7.29 0.23 Inferred 1.97 2.81 5.54 0.18 Total 5.26 3.52 18.49 0.59 CdS II (Pinta Bem) Measured Indicated 0.03 1.85 0.06 0.00 Inferred

3.60 0.62 0.02 Total 0.20 3.33 0.68 0.02 CdS II (Sangue de Boi) Measured 0.05 6.99 0.36 0.01 Indicated 0.74 6.32 4.70 0.15 Inferred 1.66 5.91 9.82 0.32 Total 2.46 6.06 14.88 0.48 CdS II (Sao Bento Mine Resources) Measured Indicated 0.51 6.83 3.48 0.11 Inferred 4.12 5.91 24.36 0.78 Total 4.63 6.01 27.84 0.90

CdS II (Pari)

Measured Indicated Inferred 2.68 3.15 8.44 0.27 Total 2.68 3.15 8.44 0.27 CdS II (Secondary Orebodies) Measured Indicated Inferred 0.25 3.64 0.92 0.03 Total 0.25 3.64 0.92 MINERAL RESOURCE AND ORE RESERVE REPORT 2013

148

Inclusive Mineral Resource continued as at 31 December 2013 **Tonnes** Grade **Contained gold** Córrego do Sítio Category million g/t Tonnes Moz CdS II (Transitional) Measured Indicated 0.00 2.92 0.01 0.00 Inferred 0.08 3.64 0.31 0.01 Total 0.09 3.62 0.32 0.01 CdS II (Oxides) Measured Indicated 0.39 3.51 1.38 0.04 Inferred 1.24 3.42 4.23

0.14 Total 1.63 3.44

5.61 0.18 Córrego do Sítio Total 33.30 5.06 168.62 5.42 Exclusive Mineral Resource as at 31 December 2013 **Tonnes** Grade Contained gold Córrego do Sítio Category million g/t **Tonnes** Moz Measured 2.84 5.88 16.67 0.54 Indicated 5.77 5.30 30.58 0.98 Inferred 20.86 4.77 99.54 3.20 Córrego do Sítio Total 29.47 4.98 146.79 4.72 The Exclusive Mineral Resource includes all of the CdS areas. It also includes the Sangue de Boi, Cachorro Bravo, Laranjeiras and Carvoaria underground deposits. The Inferred Mineral Resource that has been included in the oxide pit shells and is also part of the Exclusive Mineral Resource. **ORE RESERVE** Ore Reserve as at 31 December 2013 **Tonnes**

Grade

Contained gold

Córrego do Sítio Category million g/t **Tonnes** Moz CdS I (Cachorro Bravo) Proved 0.36 4.68 1.71 0.05 Probable 0.25 4.29 1.08 0.03 Total 0.62 4.52 2.79 0.09 CdS I (Carvoaria) Proved 0.10 7.17 0.69 0.02 Probable 0.63 6.27 3.96 0.13 Total 0.73 6.39 4.65 0.15 CdS I (Laranjeiras) Proved 0.28 4.49 1.25 0.04 Probable 0.34 4.15 1.42 0.05

Total 0.62

4.30 2.67 0.09 CdS I (Oxides) Proved 0.49 2.64 1.30 0.04 Probable 0.99 2.10 2.08 0.07 Total 1.49 2.28 3.38 0.11 CdS II (Sangue de Boi) Proved 0.05 4.90 0.26 0.01 Probable 0.74 4.74 3.49 0.11 Total 0.79 4.76 3.75 0.12 CdS II (Oxides) Proved Probable 0.04 2.46 0.09 0.00 Total 0.04 2.46

0.09 0.00

Córrego do Sítio

Total

4.28

4.05

17.33

0.56

149

AMERICAS

SECTION FOUR

SECTION FIVE

SECTION SIX

SECTION THREE

SECTION TWO

SECTION ONE

AGA MINERAÇÃO

continued

Córrego do Sítio

Ore Reserve modifying factors

31 December 2013

Córrego do Sítio

Gold

price

BRL/oz

Cut-off

value

g/t Au

Stoping

width

cm

Dilution

%

Dilution

g/t

%

RMF

(based

on

tonnes)

%

RMF

(based

on g/t)

%

MRF

(based

on

tonnes)

%

MRF

(based

on g/t)

MCF

%

MetRF

%

CdS I (Oxides)

2,551

0.70

30.0

0.1

100.0

100.0

100.0

```
95.0
88.0
CdS II (Oxides)
2,551
0.65
30.0
0.1
100.0
100.0
100.0
100.0
92.0
87.0
CdS I (Cachorro Bravo)
2,551
3.42
321.0
30.0
92.0
107.0
100.0
100.0
90.0
87.0
CdS I (Carvoaria)
2,551
3.42
318.0
30.0
100.0
100.0
100.0
100.0
90.0
87.0
CdS I (Laranjeiras)
2,551
3.42
316.0
30.0
92.0
107.0
100.0
100.0
90.0
94.3
CdS II (Sangue de Boi)
```

```
2,551
4.33
321.0
10.0
100.0
100.0
100.0
100.0
92.0
88.0
Inferred Mineral Resource in business plan
as at 31 December 2013
Tonnes
million
Grade
g/t
Contained gold
Córrego do Sítio
Tonnes
Moz
Comment
CdS I (Oxides)
0.45
2.11
0.96
0.03
CdS I (Cachorro Bravo)
0.32
4.64
1.50
0.05
CdS I (Carvoaria)
0.42
5.36
2.24
0.07
CdS I (Laranjeiras)
2.20
4.36
9.59
0.31
CdS II (Oxides)
0.02
3.20
0.05
```

CdS II (Sangue de Boi) 0.65 5.03 3.28 0.11 Total 4.06 4.34 17.61 0.57 The Inferred Mineral Resource has been included in the mine design, but not in the mine plan. Inferred Mineral Resource has been located in the mining panels in the lower areas of some sulphide deposits such as Cachorro Bravo, Laranjeiras, Carvoaria and Sangue de Boi. **COMPETENT PERSONS** Category **Competent Person Professional** organisation **Membership** number Relevant experience **Qualification** Mineral Resource Leonardo Hiram Nunez MAusIMM 312 268 8 years BSc (Geology) MSc (Mineral Resource Evaluation) Ore Reserve Renato Queiroz de Castro MAusIMM 312 329 9 years BSc (Mining Engineering) MINERAL RESOURCE AND ORE RESERVE REPORT 2013 150

AMERICAS
151
SECTION FOUR
SECTION FIVE
SECTION SIX
SECTION THREE
SECTION TWO
SECTION ONE

AGA MINERAÇÃO

continued

Cuiabá

LOCATION

Cuiabá Mine is located near Sabará, southeast of the city of Belo Horizonte within the mining district referred as the Iron Quadrangle.

This region is the second largest producer of iron, gold and manganese in Brazil. The first mining works in the area were carried out

by artisanal miners starting in 1740. The mine was acquired by Saint John Del Rey Mining Company Ltd in 1834. Research work and

drift development were resumed in 1977, culminating with the reopening of the mine in 1985. In 1996, the company became a wholly-

owned subsidiary of the Anglo American Group, and in 1999, its ownership was transferred to the holding company AngloGold (now

AngloGold Ashanti), where it remains to this day.

The Cuiabá Expansion project was approved in 2005 and ramp-up ore production started in 2007. The refrigeration plant was started-

up in 2010 to allow mining below Level 16. Since 2011, Cuiabá Mine has changed the mining method from cut-and-fill to long-hole;

aiming for more productivity, selectivity and safer conditions.

GEOLOGY

Cuiabá mine has gold mineralisation associated with sulphides and quartz veins in banded iron formation (BIF) and volcanic sequences.

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.

Apparent intersection of thrust faults with tight isoclinal folds in a ductile environment tends to control the mineralisation structures.

The host rocks are primarily BIF and secondarily mafic volcanics (mainly basaltic). Mineralisation is believed to be due to the interaction

of low salinity, carbon dioxide rich gold-bearing 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, showing clear

zonation in the underground environment. The ore is mainly concentrated in the silicic and sulphidation zones, inside the BIF or in

potassic (and sericitic) zones near the basalts. The main deposits at Cuiabá are as follows:

normal limb: Fonte Grande Sul and Serrotinho; and

overturned limb: Balanção, Galinheiro and Canta Galo.

Viana

Serrotinho

Surucucu

Galinheiro

Extensão

Galinheiro Sul

Galinheiro FW

Balancão

Canta Galo Fonte Grande Fongte Grande Sul NV Scale 0 50 100 150m

Cuiabá geological map

MINERAL RESOURCE AND ORE RESERVE REPORT

2013

152

EXPLORATION

In 2013 almost 29,000m of drilling was completed. This investment is part of a fast-track exploration programme that aims to

investigate the down plunge continuity of the main mineralised zones below Level 21 and to define the potential of satellite deposits

along the entire geological structure. The exploration programme was divided into underground and surface drilling. Underground

drilling was executed with two rigs, focused on Mineral Resource addition in the Serrotinho deposit bellow Level 17 and Mineral

Resource conversion for Fonte Grande Sul, Galinheiro and Balanção between Levels 16-17. Surface drilling aims to confirm the

continuity of main deposits (Fonte Grande Sul, Serrotinho, Galinheiro and Balancão) below Level 21 to support the production plan.

Deep drilling has been executed with two rigs which can drill down to 2,600m (NQ) and 3,300m (HQ). In deep drilling, wedging has

been employed to control the natural deviation that affects trajectory of the drill hole as well as to drill daughter holes from parent holes.

For 2014 exploration will be reinforced by the addition of one more underground drill rig to execute deeper holes.

Apart from the

addition and conversion of Mineral Resource for the main deposits, a drilling campaign will be executed for satellite deposits, mainly

Galinheiro Footwall and Viana.

PROJECTS

The Conceptual Study for Cuiabá Deep is in progress, including the following studies: exploration, rock engineering, transport

alternatives, infrastructure, tailing dam and metallurgy. An output of the Conceptual Study will be a set of recommendations that must

be addressed in order to sustain mine operations.

Additionally, a simulation exercise considering different alternatives for the mine transport system in the Cuiabá Mine is being carried

out, considering four alternatives to determine the most cost-effective system for deepening the mine. In accordance with AngloGold

Ashanti's guidelines, in the short term the focus is on carrying out engineering studies to optimise operating costs and improve the

asset value.

MINERAL RESOURCE

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

Type of drilling

Mine/Project

Category

Spacing

m (-x-)

Diamond

RC

Blast-hole Channel

Other

Comments

AGA Mineração -

Cuiabá

Measured

30 x 60

Drillhole inclination reviewed to reflect current value Indicated 30 x 60 Inferred 80 x 120 Grade/Ore Control 5 x 5 153 **AMERICAS SECTION FOUR SECTION FIVE SECTION SIX** SECTION THREE **SECTION TWO**

SECTION ONE

AGA MINERAÇÃO

continued

Cuiabá

Inclusive Mineral Resource

as at 31 December 2013

Tonnes

Grade

Contained gold

Cuiabá

Category

million

g/t

Tonnes

Moz

Main Deposits

Measured

1.46

11.12

16.23

0.52

Indicated

0.94

9.15

8.63

0.28

Inferred

5.10

9.09

46.38

1.49

Total

7.50

9.49

71.24

2.29

Narrow Veins

Measured

1.50

5.67

8.52

0.27

Indicated

4.02

5.31

21.35

0.69

Inferred

4.06

6.12

24.84

Total 9.58 5.71 54.71 1.76 Secondary areas Measured 0.72 6.37 4.58 0.15 Indicated 0.17 6.78 1.15 0.04 Inferred 0.32 6.08 1.92 0.06 Total 1.20 6.35 7.64 0.25 Cuiabá Total 18.29 7.30 133.59 4.29 Exclusive Mineral Resource as at 31 December 2013 **Tonnes** Grade **Contained gold** Cuiabà Category million g/t **Tonnes** Moz Measured 1.43 8.51 12.16

0.39Indicated1.246.66

Edgar Filing: ANGLOGOLD ASHANTI LTD - Form 6-K 8.24 0.27 Inferred 9.47 7.72 73.14 2.35 Cuiabá Total 12.14 7.70 93.54 3.01 This Exclusive Mineral Resource is Inferred Mineral Resource that is in the process of being upgraded with conversion drilling. The Exclusive Mineral Resource is located below infrastructure, starting on Level 17 (at Fonte Grande Sul and Serrotinho) and Level 14 (at Balanção, Galinheiro and Canta Galo). In addition, secondary areas consisting of old stoping panels and satellite deposits are also considered Exclusive Mineral Resource. **ORE RESERVE** Ore Reserve as at 31 December 2013 **Tonnes** Grade **Contained gold** Cuiabà Category million g/t **Tonnes** Moz Main Deposits Proved 1.07 9.11 9.75 0.31 Probable 0.71 7.74 5.53 0.18 Total 1.79 8.56 15.28 0.49

Narrow Veins Proved 1.18

4.81 5.66 0.18 Probable 3.17 4.73 15.01 0.48 Total 4.35 4.75 20.67 0.66 Cuiabà Total 6.13 5.86 35.95 1.16 Ore Reserve modifying factors **31 December 2013** Cuiabà Gold price **BRL/oz Cut-off** value g/t Au **Stoping** width cm **Dilution** % **Dilution** g/t % **RMF** (based tonnes) % **RMF**

(based on g/t) %
MRF
(based on tonnes) %
MRF

(based on g/t) **MCF MetRF** % Main Orebodies 2,551 5.11 800.0 8.0 100.0 100.0 88.0 92.0 94.5 93.0 Narrow Veins 2,551 3.81 400.0 0.4 100.0 100.0 88.0 92.0 94.5 93.0

MINERAL RESOURCE AND ORE RESERVE REPORT 2013

154

Inferred Mineral Resource in business plan as at 31 December 2013 **Tonnes** million Grade g/t **Contained gold** Cuiabá **Tonnes Moz Comment** Main Deposits 0.11 6.18 0.67 0.02 Part of deposit FGS Levels 15 and 16 and SER deposit Levels 15, 16 and 17 Narrow Veins 0.28 5.53 1.54 0.05 Part of deposits BAL and GAL from Level 12 to 15 Total 0.39 5.71 2.21 0.07 Inferred Mineral Resource is not transformed into Ore Reserve, but may be included for the purpose of defining the business plan. **COMPETENT PERSONS** Category **Competent Person Professional** organisation **Membership** number Relevant experience **Qualification** Mineral Resource Rodrigo Martins MAusIMM 311 050 9 years BSc (Geology) MSc (Geology) Ore Reserve Paulo Peruzzo MAusIMM

312 703

24 years

BSc (Mining Engineering)

155

AMERICAS

SECTION FOUR

SECTION FIVE

SECTION SIX

SECTION THREE

SECTION TWO

SECTION ONE

LOCATION

Lamego is located in the north-western part of the Iron Quadrangle metallogenetic province, close to Cuiabá gold mine. The mine is

located to the east of the city of Belo Horizonte, which is in the Minas Gerais State in the south-eastern region of Brazil. The mining

method is a combination of cut-and-fill and room-and-pillar, which springs from the need to leave pillars in stopes that have a large

mining area, exceeding the 20-m span designed by the geotechnical studies. It is also a method that permits selectivity, but it has

constraints in terms of productivity. Recently, detailed infill drilling provided information for a new method. The trial of a 'long-blind-hole-

stoping' bulk mining method is in progress.

GEOLOGY

The gold mineralisation at Lamego is characterised by deposits associated with two horizons of chemical sedimentary rocks: Banded

Iron Formation (BIF) and metachert (MCH), and also with shear zones containing abundant quartz veinlets. The proportions of these

lithotypes vary substantially from one deposit to another. In the BIF, sulphide mineralisation is associated with gold, whilst in the MCH

and quartz veins the gold occurs either as native gold or in sulphides. The mineralisation is characterised by sulphidation in the form

of disseminated sulphide bands or as fracture filling and, more rarely, as massive sulphide hosted in BIF/MCH. Sulphide bands are

rare in MCH. The plunge of the mineralised zones coincides with both the fold axis of the first two structural events and the mineral

stretching lineation.

The Arco da Velha deposit is located on the eastern side of a large fold and extends for 250m along the strike. In the north-eastern portion

the mineralisation is concentrated in the MCH, whilst in the south-western portion it is concentrated in the BIF. Carbonaceous phyllite and

chlorite-sericite schists occur in the hangingwall contact, while hydrothermally-altered meta-andesite occurs in the footwall.

The Cabeça de Pedra deposit is located in the hinge region of the large Lamego structure. The area which has shown the best

economic potential contains BIF and MCH (80% of the area consists of BIF and the remaining 20% is MCH). The presence of faulting

makes the stratigraphy complex in some areas. The carbonaceous phillite and clorite/sericite schists normally occur in the hangingwall

and meta-andesites in the footwall.

Carruagem is the main deposit and it is located close to the junction of two fold limbs in the northeast portion of the major structure.

It is a boudinaged body with two large disruptions in the structure (pinch and swell), followed by eastward displacement. The gold

mineralisation is mainly associated with hydrothermal zones within the BIF.

EXPLORATION

In 2013 18,500m of drilling focused on Mineral Resource conversion as completed. Exploration at Lamego Mine was focused on

the Carruagem deposit. A surface drilling campaign was completed to confirm the continuity of mineralisation at Level 5 which will

support mine development in that area. Other surface drilling was executed to test changes in the plunge of Carruagem below Level 7.

Underground drilling was executed aimed at Mineral Resource conversion for Carruagem around Level 6 and 6.01 and similarly Queimada

for Level 5.

Exploration in 2014 is planned to be reinforced with the arrival of one underground rig that will be dedicated to Mineral Resource

addition and conversion for the Queimada deposit. It will also aim to confirm the continuity of Arco da Velha on the reverse limb. Finally,

surface drilling of the down-plunge extents of the Carruagem deposit below Level 7 is planned.

MINERAL RESOURCE

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

Type of drilling Mine/Project Category **Spacing** m (-x-) **Diamond RC Blast-hole Channel** Other **Comments** AGA Mineração -Lamego Measured 20 x 10 Grid spacing 10 x 12 at Level 5.1 Indicated 125 x 25 Inferred 300 x 50 Grade/Ore Control 2×3

AGA MINERAÇÃO

continued

Lamego

MINERAL RESOURCE AND ORE RESERVE REPORT 2013

156

Inclusive Mineral Resource

as at 31 December 2013

Tonnes

Grade

Contained gold

Lamego

Category

million

g/t

Tonnes

Moz

Arco da Velha

Measured

0.09

5.05

0.47

0.01

Indicated

0.29

4.26

1.23

0.04

Inferred

0.38

3.34

1.26

0.04

Total

0.76

3.90

2.96

0.10

Cabeca de Pedra

Measured

0.30

4.26

1.26

0.04

Indicated

1.13

3.57

4.04

0.13

Inferred

0.62

4.56

2.81

0.09

Total

2.04

8.11 0.26 Carruagem Measured 2.15 4.58 9.83 0.32 Indicated 0.65 4.81 3.15 0.10 Inferred 1.41 5.05 7.13 0.23 Total 4.22 4.77 20.12 0.65 Secondary areas Measured 0.17 5.02 0.86 0.03 Indicated 0.38 5.87 2.26 0.07 Inferred 1.09 3.90 4.23 0.14 Total 1.64 4.48 7.35 0.24 Lamego Total 8.66 4.45 38.53 1.24

157

AMERICAS
SECTION FOUR
SECTION FIVE
SECTION SIX
SECTION THREE
SECTION TWO
SECTION ONE

Exclusive Mineral Resource

as at 31 December 2013

Tonnes

Grade

Contained gold

Lamego

Category

million

g/t

Tonnes

Moz

Measured

1.49

4.83

7.19

0.23

Indicated

1.65

4.24

6.99

0.22

Inferred

3.20

4.46

14.26

0.46

Lamego

Total

6.34

4.49

28.44

0.91

ORE RESERVE

Ore Reserve

as at 31 December 2013

Tonnes

Grade

Contained gold

Lamego

Category

million

g/t

Tonnes

Moz

Arco da Velha

Proved

0.09

2.79

0.24

0.01

Probable

0.17 2.98 0.52 0.02 Total 0.26 2.92 0.76 0.02 Cabeca de Pedra Proved 0.08 3.30 0.25 0.01 Probable 0.34 3.03 1.04 0.03 Total 0.42 3.08 1.29 0.04 Carruagem Proved 1.28 3.28 4.21 0.14 Probable 0.46 3.81 1.75 0.06 Total 1.74 3.42 5.96 0.19 Lamego Total 2.42 3.31 8.02 0.26

Ore Reserve modifying factors

31 December 2013

Lamego

Gold

price BRL/oz **Cut-off** value g/t Au Stoping width cm **Dilution** % **Dilution** g/t % **RMF** (based on tonnes) % **RMF** (based on g/t) % **MRF** (based on tonnes) % **MRF** (based on g/t) **MCF** % **MetRF** % Arco da Velha 2,551 2.57 350.0 5.0 83.8 69.3 105.8 87.0 94.5 93.0 Cabeca de Pedra 2,551 2.91

350.0 5.0

83.8 69.3 105.8 87.0 94.5 93.0 Carruagem 2,551 2.57 1,500.0 5.0 83.8 69.3 105.8 87.0 94.5 93.0 Inferred Mineral Resource in business plan as at 31 December 2013 **Tonnes** million Grade g/t **Contained gold** Lamego **Tonnes Moz Comment** Cabeca de Pedra 0.21 3.05 0.63 0.02 Carruagem 0.13 3.08 0.41 0.01 Total 0.34 3.06 1.05 0.03 Inferred Mineral Resource is not converted into Ore Reserve, but may be included for the purpose of defining the business plan. **COMPETENT PERSONS** Category

Competent Person Professional

organisation

Membership

number

Relevant

experience

Qualification

Mineral Resource

Rodrigo Martins

MAusIMM

311 050

9 years

BSc (Geology)

MSc (Geology)

Ore Reserve

Renato Queiroz de

Castro

MAusIMM

312 329

9 years

BSc (Mining Engineering)

AGA MINERAÇÃO

continued

Lamego

MINERAL RESOURCE AND ORE RESERVE REPORT 2013

AMERICAS
159
SECTION FOUR
SECTION FIVE
SECTION SIX
SECTION THREE
SECTION TWO
SECTION ONE

AGA MINERAÇÃO

continued

Nova Lima Sul

LOCATION

The Nova Lima Sul project is located in the western portion of the Rio das Velhas greenstone belt, and all the exploration targets are

within a 16km radius of the Queiroz metallurgical plant. The project was recently incorporated by Cuiabá-Queiroz brownfields project

due to new organisational structure in the Iron Quadrangle region. Nova Lima Sul exploration targets comprise mothballed operations

(Raposos underground mine), old mines (Mina Grande, Morro da Glória, Bicalho, Faria, Bela Fama), as well as old prospects (Luzia da

Mota, Limoeiro) and several old surface workings (Saboeiro Rasgão, Urubu and Luzia's Mina Grande). The main exploration goal is to

add to and convert the Mineral Resource in order to fill the Queiroz plant's spare capacity.

GEOLOGY

The Nova Lima Sul targets are situated in the south-western portion of the Iron Quadrangle in the Minas Gerais state of Brazil. The

area is located in the volcanic sedimentary sequence of the Nova Lima Group (Rio das Velhas Supergroup), within the Rio das Velhas

greenstone belt.

The Nova Lima Group hosts the main gold mines and mineral occurrences in the Iron Quadrangle and consists of a basal tholeittic—

komatiitic volcanic unit with abundant chemical sedimentary rocks, which is overlain by a volcaniclastic unit with associated felsic

volcanic rocks. This is in turn overlain by an upper clastic unit. The mineralised deposits in the Rio das Velhas greenstone belt

are structurally controlled and are associated with hydrothermal alterations along D2 thrust shear zones, on a regional scale. The

mineralisation is epigenetic and the most common mineralisation styles at Nova Lima Sul are massive, banded and disseminated

sulphides hosted in banded iron formations (BIF) and lapa seca (albitised hydrothermal rocks).

Mapped deposit dimensions vary in thickness from around 0.5m to 20m and can be more than 5,000m in length (along plunge

direction). The plunge is defined by the stretching lineation and it is parallel to the fold axis of the first two regional deformation events.

Geology of Raposos

The Raposos sequence is interpreted as a ductile thrust that occurred during the first deformation event. The main mineralised area is

associated with an anticline of the same event. The stratigraphic sequence, repeated by folds, has ultramafics at the base, overlain by

komatiitic basalts, basalts and andesites with layers of BIF. Pelites and metavolcaniclastic occur at the top of the sequence. The BIF

is oxide facies (magnetite and quartz), with carbonatisation in the mineralised areas.

The mineralisation is primarily located in the BIF and surrounded by concentric hydrothermal alteration zones consisting of sericitisation,

carbonatisation and chloritisation.

Geology of Morro da Glória

In the Morro da Glória area the rocks consist of komatiitic ultramafics, graphite phylite, felsic metavolcaniclastic associated with

metapelites and several layers of BIF.

The large-scale folds at Raposos and Morro da Glória are anticlines and the mineralisation is associated with these folds and shear

zones, surrounded by concentric hydrothermal alteration zones consisting of sericitisation, carbonisation and chloritisation. BIF is

oxide facies (magnetite and quartz), with carbonatisation in the mineralised areas. The gold is associated with sulphides and quartz

veins in the BIF and altered schists.

EXPLORATION

In 2013 no exploration was completed in the Nova Lima Sul region.

MINERAL RESOURCE AND ORE RESERVE REPORT 2013

MINERAL RESOURCE Details of average drill-hole spacing and type in relation to Mineral Resource classification Type of drilling Mine/Project Category **Spacing** m (-x-) **Diamond RC Blast-hole Channel** Other **Comments** AGA Mineração -Nova Lima Sul Measured 15 x 15, 30 x 30 Surface channel sampling and DD plus 34 Level open at Raposos mine Indicated 30 x 30, 60 x 60 Surface channel sampling and DD plus 34 Level open at Raposos mine Inferred 60 x 60, 100 x 100 Channel sampling in the levels at Raposos mine and DD

Grade/Ore Control 3 x 3

Inclusive Mineral Resource

as at 31 December 2013

Tonnes Grade

Contained gold Nova Lima Sul Category million g/t Tonnes Moz Morro da Glória Measured Indicated Inferred 1.26 6.52 8.21 0.26 Total 1.26 6.52 8.21 0.26 Raposos Measured 0.18 7.01 1.29 0.04 Indicated 0.41 6.85 2.80 0.09 Inferred 2.25 6.44 14.50 0.47 Total 2.84 6.53 18.59 0.60 Luzia da Mota Measured

Edgar Filing: ANGLOGOLD ASHANTI LTD - Form 6-K 0.35 2.72 0.96 0.03 Indicated 0.56 2.75 1.54 0.05 Inferred 0.63 3.03 1.90 0.06 Total 1.54 2.86 4.41 0.14 Nova Lima Sul Total 5.65 5.53 31.21 1.00 The Nova Lima Sul project currently does not have any declared Ore Reserve and the Exclusive and Inclusive Mineral Resource numbers are therefore identical. **COMPETENT PERSONS** Category **Competent Person Professional** organisation Membership number Relevant experience Qualification Mineral Resource Rodrigo Martins MAusIMM 311 050 9 years BSc (Geology) MSc (Geology) 161 **AMERICAS SECTION FOUR**

SECTION FIVE SECTION SIX SECTION THREE SECTION TWO SECTION ONE

LOCATION

Since May 2012, Serra Grande has been wholly owned by AngloGold Ashanti and controls, or has an interest or agreements in,

approximately 48,207ha in and around the Crixás mining district in the north-western area of the Goiás in central Brazil. Serra Grande

is located 5km from the city of Crixás and 420km from the Brazilian capital, Brasilia.

The Serra Grande operation comprises three underground mines, namely Mina III (Orebody IV), Mina Nova (including Pequizão) and

Palmeiras, and one open pit (100m at depth), which represents the outcrop of mineralised Superior (massive sulphides) and Inferior

(quartz vein with visible gold) zones. The processing circuit is equipped with grinding, leaching, filtration, precipitation and smelting

facilities, and is currently able to process 1.20Mtpa, expected to increase to 1.28Mtpa with operational improvements in 2014.

Three mining methods are used in underground mines: cut and fill, sub-level stoping and room and pillar.

GEOLOGY

The Serra Grande gold deposits are hosted in a typical greenstone belt sequence. The host rocks belong to the Crixás Group of the

Upper Archean in the Crixás greenstone belt. The Crixás greenstone belt is surrounded by granitic gneiss terrains from the Anta and

Caiamar complexes and metasedimentary rocks from the Santa Terezinha Group, which is part of the magmatic arc of Goiás.

Two main deformation events have been identified in the region. The first event is a thrust event (east over west, called D1). This event

was responsible for stacking and inverting the stratigraphic sequence. The second event (D2) was the thrusting of the Santa Terezinha

sequence over the Crixás greenstone belt, folding the rocks (F2) and generating the structures that control the gold mineralisation,

generally parallel to the fold axis.

The mineralisation is associated with quartz veins, massive to disseminated sulphides in metasedimentary, metavolcaniclastic rocks

and metabasalts, with different degrees of hydrothermal alteration. The mineralisation is controlled by regional shear-thrust structures

(named Structure II, III, IV and V and Palmeiras), and the mineralisation occurs as stacked lenses, generally concentrated in the same

high deformation positions (with folds and disruptions) in the mentioned structures. Geometry of the mineralised deposits is typically

complex, with pinch and swell, folded and boudinage shapes, dipping from 10° to 25° and with greatest continuity along northwest-

plunging structures (azimuth true 290). Greenstone belt regional tectonics consists of a dome and keel structure and Cajueiro deposit

was defined into this structure in 2012, 7km from the current operations. Encouraging drilling intersections added to other exploration

works demonstrate potential for Crixás North greenstone belt related targets.

In Structure II the mineralisation is arsenopyrite associated with quartz as veinlets in carbonaceous metapelite as seen in the new

deposit, Cajueiro. In Structure III, the mineralisation is located in quartz veins that are hosted in carbonaceous schists, representing

the highest gold grades (>8 g/t, with free gold), as seen in Mina III (Inferior zone) and Ingá. This structure is also associated with

massive and disseminated sulphides (mainly pyrrhotite and arsenopyrite) that occur in a sequence of hydrothermally-altered schists.

The mineralisation of Structure IV comprises quartz veinlets and disseminated sulphide (pyrrhotite) hosted in graphite schists as at

Pequizão. The mineralised zones are hosted in sericite and chlorite schists with massive and disseminated sulphide concentrated in

folded zones. The ore shoots plunge to the northwest and the dips vary between 6° and 35°. Palmeiras structure is associated with

hydrothermal alteration of metabasalts, with sericite, chlorite, carbonate and massive sulphides (pyrrhotite).

The main producing areas are the Palmeiras Mine in the southern portion of the mine camp, Pequizão accessed from Mina Nova, Mina III

(orebody IV) and the open pit (outcrop of Mina III). Exploration strategy is focusing on high-grade targets. In 2013 new high-grade

mineralisation (average > 8g/t) was identified beneath Pequizão. This new target, named Ingá, is in preliminary exploration stage and

shows visible gold in the quartz vein of Structure III, the same structure that hosts Mina III, and has been declared as new Inferred

Mineral Resource in 2013.

Regional greenstone tectonics are being reassessed and a dome and keel (saddle) regional structure has been identified. Efforts are

being undertaken to map the greenstone belt in more detail to confirm this idea. Once the implications are better understood this

model could suggest the repetition of the mineralisation towards the NW. Structures II, III, IV and V seem to deflect towards the NW

and even N-NE, generating new prospective areas and explaining old anomalies previously poorly understood. SERRA GRANDE

MINERAL RESOURCE AND ORE RESERVE REPORT 2013

EXPLORATION

The fast-track exploration programme at Serra Grande has added 1.5Moz of new Inferred Mineral Resource to the Serra Grande

portfolio in the past three years. Over the next two years exploration will seek to add further high-grade ore, to increase the average

grade of the Ore Reserve and further extend the life of the operation. This programme, which began in 2011 and continued in 2013,

is aligned with the strategy of adding new high-grade Mineral Resource in new targets, such as Inga and Crixás North, as well as

extending the life of currently mined deposits such as Pequizão, Palmeiras, Orebody IV and Mina Nova.

In 2013, 58,000m of drilling was completed, and added to Serra Grande portfolio at an average grade of 8.19g/t (Inga Mineral

Resource). In Serra Grande, the currently known deposits generally were thought to have mineralisation concentrated between depths

of 200 and 400m. However, this theory was challenged and in 2013 new high grade intercepts were obtained in the quartz vein of

Structure III, at a depth of 650m, just beneath the current Structure IV of the Pequizão deposit. This new target is named Ingá and is

being drilled on a grid 100 x 50m. It is in the initial stage of exploration, but the first positive results with high grades in quartz veins

(>8g/t), potentially similar to the visible gold in gold-bearing quartz veins of Mina III, are encouraging.

In parallel, new regional targets are being generated through geochemistry, geophysics and geological mapping. These bring important

new drilling targets towards the south and north extensions of the greenstone belt. More information will be collected by the scheduled

exploration in 2014 and 2015.

PROJECTS

Based on the first results from the Inga Inferred Mineral Resource, a scoping study is being developed to identify possible future

economic mining options. Consequently, the mining and metallurgical teams have started to study options to develop declines and

horizontal drifts from current infrastructure of either Mina III or Mina Nova, as well as analysing mining methods and mining recovery

based on a first preliminary study. The preliminary mine design has been generated on the Inferred Mineral Resource model.

163

AMERICAS

SECTION FOUR

SECTION FIVE

SECTION SIX

SECTION THREE

SECTION TWO

SECTION ONE

Edgar Filing: ANGLOGOLD ASHANTI LTD - Form 6-K MINERAL RESOURCE Details of average drill-hole spacing and type in relation to Mineral Resource classification Type of drilling Mine/Project Category **Spacing** m (-x-) **Diamond RC Blast-hole Channel** Other **Comments** Serra Grande Measured 10 x 10, 20 x 10 Other: percussion drilling Indicated 10 x 20, 20 x 50 Inferred 50 x 50, 50 x 100, 100 x 50 Grade/Ore Control 2 x 2 Inclusive Mineral Resource as at 31 December 2013 **Tonnes** Grade **Contained gold**

Serra Grande Category million g/t Tonnes

Moz

Mina Nova

Measured

3.01

3.41

10.27

0.33

Indicated

1.57

3.11

4.89

0.16

Inferred

2.23

3.31

7.40

0.24

Total

6.82

3.31

22.56

0.73

Mina III

Measured

1.15

4.66

5.34

0.17

Indicated

1.05

4.62

4.85

0.16

Inferred

1.82

4.88

8.89

0.29

Total 4.02

4.75

19.08

0.61

Palmeiras

Measured

0.30

6.84

2.06

0.07

Indicated

0.35

0.86 4.88 4.19 0.13 Total 1.51 5.44 8.19 0.26 Pequizao Measured 0.68 5.50 3.77 0.12 Indicated 1.38 4.71 6.50 0.21 Inferred 4.50 3.83 17.25 0.55 Total 6.56 4.19 27.51 0.88 Cajueiro Measured Indicated Inferred 1.22 2.89 3.52 0.11 Total

5.58 1.94 0.06 Inferred

1.22 2.89 3.52 0.11 Open pit Measured 0.28 3.20 0.88 0.03 Indicated 0.34 3.11 1.04 0.03 Inferred 0.13 1.88 0.24 0.01 Total 0.74 2.93 2.16 0.07 Inga Measured Indicated Inferred 1.18 8.19 9.65 0.31 Total 1.18 8.19 9.65 0.31 Total stockpiles Measured 0.19 1.65

0.31

0.01 Indicated Inferred Total 0.19 1.65 0.31 0.01 Serra Grande Total 22.23 4.18 92.98 2.99 SERRA GRANDE continued MINERAL RESOURCE AND ORE RESERVE REPORT 2013

Exclusive Mineral Resource as at 31 December 2013 **Tonnes** Grade Contained gold Serra Grande Category million g/t **Tonnes** Moz Measured 0.17 5.99 1.03 0.03 Indicated 1.31 3.60 4.72 0.15 Inferred 9.67 4.04 39.07 1.26 Serra Grande Total 11.15 4.02 44.83 1.44 The Exclusive Mineral Resource is located very close to the Serra Grande site, mostly inside the operational mine footprint. The Mineral Resource can be divided into three categories: Inferred Mineral Resource of operating mines, every year partially reclassified through conversion drilling (infill) in accordance of the production plan (BP2014). Represents 44% of total; Resources not feasible economically for the current year BP2014, representing 19% of Exclusive Mineral Resource; and Resources that need economic studies representing around 37% of the Exclusive Mineral Resource. The exception to

Mineral Resource below infrastructure

is the Cajueiro deposit, located 10km from the Serra Grande site.

as at 31 December 2013

Tonnes

Grade

Contained gold

Serra Grande Category million g/t **Tonnes** Moz Measured Indicated Inferred 10.94 4.46 48.82 1.57 Serra Grande Total 10.94 4.46 48.82 1.57 2.79 -0.18 -0.01 0.00 0.31 0.08 0.00 0.00 2.99 Ounces (millions) 3.00 2.95 2.90 2.85 2.80 2.75 2.70 2.65 2.60 2.55 2012

Depletion

Gold price Cost Exploration Methodology Other Acquisition/ Disposal 2013 Serra Grande Mineral Resource reconciliation: 2012 to 2013 0.76 -0.14 -0.01 -0.01 -0.03 0.00 -0.01 -0.000.57 Ounces (millions) 0.78 0.74 0.70 0.66 0.62 0.58 0.54 2012 Other 2013 Serra Grande Ore Reserve reconciliation: 2012 to 2013 Depletion Model change **Economics** New ounces from **Projects** Scope Change Acquisition/ Disposal 165

AMERICAS

SECTION FOUR SECTION FIVE SECTION SIX SECTION THREE SECTION TWO SECTION ONE

ORE RESERVE

Ore Reserve

as at 31 December 2013

Tonnes

Grade

Contained gold

Serra Grande

Category

million

g/t

Tonnes

Moz

Mina Nova

Proved

1.80

2.22

3.99

0.13

Probable

0.42

2.76

1.16

0.04

Total

2.22

2.32

5.15

0.17

Mina III

Proved

0.49

3.37

1.65

0.05

Probable

0.83

3.34

2.78

0.09

Total

1.323.35

4.43

т.т.

0.14

Palmeiras

Proved

0.26

3.84

1.02

0.03

Probable

0.28 3.09 0.87 0.03 Total 0.54 3.45 1.88 0.06 Pequizao Proved 0.43 3.85 1.67 0.05 Probable 0.92 3.72 3.40 0.11 Total 1.35 3.76 5.07 0.16 Open pit Proved 0.25 2.97 0.75 0.02 Probable Total 0.25 2.97 0.75 0.02 Total stockpiles Proved 0.19 1.65 0.31 0.01 Probable

Total 0.19 1.65 0.31 0.01 Serra Grande Total 5.87 3.00 17.59 0.57 Ore Reserve modifying factors **31 December 2013** Serra Grande Gold price **BRL/oz Cut-off** value g/t Au Stoping width cm **Dilution** % **Dilution** g/t % **RMF** (based tonnes) % **RMF** (based on g/t) % **MRF** (based on tonnes) % **MRF** (based on g/t) **MCF**

%
MetRF
%
Mina III

2,551 2.47 250.0 15.0 100.0 100.0 100.0 100.0 95.0 92.1 Mina Nova 2,551 2.12 250.0 7.0 100.0 100.0 100.0 100.0 95.0 92.1 **Palmeiras** 2,551 2.10 200.0 12.0 100.0 100.0 100.0 100.0 95.0 92.1 Pequizao 2,551 2.14 350.0 12.0 100.0 100.0 100.0 100.0 95.0 92.1 Open pit 2,551 1.47

500.0

7.0

100.0

100.0

100.0

100.0

95.0 92.1

Inferred Mineral Resource in business plan

Approximately 22% of the Inferred Mineral Resource to which Serra Grande's technical team considers it possible to apply the mining

parameters with reasonable safety and reliability, has been included in the company's LOM.

Ore Reserve below infrastructure

There is no Ore Reserve reported below infrastructure.

SERRA GRANDE

continued

MINERAL RESOURCE AND ORE RESERVE REPORT 2013

COMPETENT PERSONS

Category

Competent Person

Professional

organisation

Membership

number

Relevant

experience

Qualification

Mineral Resource

Diogo Afonso Costa

MAusIMM

311 574

11 years

BSc (Geology)

Ore Reserve

Wanderlucio Gomes Martins

MAusIMM

311 568

13 years

BSc (Mining Engineering)

0

1 2

3

4

5

6

7

8

9

10

Tonnes

above

cut-off (millions)

Average

grade

above

cut-off (g/t)

Cut-off grade (g/t)

13

12

11

10

98

8

7

6

5

```
3
2
1
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0.0
Tonnes above cut-off
Ave grade above cut-off
Serra Grande
Grade tonnage curve – Surface (metric)
0.0
0.5
1.0
1.5
2.0
2.5
3.0
3.5
4.0
4.5
5.0
Tonnes
above
cut-off
(millions)
Average
grade
above
cut-off (g/t)
Cut-off grade (g/t)
8.0
7.5
7.0
6.5
6.0
5.5
5.0
4.5
4.0
3.5
22
20
18
16
```

12 10 8 6 4 2 Tonnes above cut-off Ave grade above cut-off **Serra Grande Grade tonnage curve – Underground (metric)** Stacking behaviour of major ore bodies at Serra Grande 167 **AMERICAS SECTION FOUR SECTION FIVE SECTION SIX**

SECTION THREE SECTION TWO SECTION ONE

COLOMBIA

COUNTRY OVERVIEW

Systematic regional greenfields exploration has been undertaken by AngloGold Ashanti and its joint venture partners (B2Gold, Glencore

International and Mineros S.A.) in Colombia since 2004. AngloGold Ashanti has consolidated its tenement position from roughly

100,000km in 2009 to 13,855km2 at the end of 2013 through a variety of structures, including joint ventures and the relinquishing of

non-prospective areas.

At Gramalote (51% AngloGold Ashanti, 49% B2Gold), the joint venture partners renegotiated their agreement, resulting in AngloGold

Ashanti assuming management of the project through a project pre-feasibility study team.

At the wholly-owned La Colosa project, brownfields exploration drilling has resumed after area adjustment permitting for new platforms

has been successfully completed. Pre-feasibility development studies have been focusing on infrastructure site facility scenarios.

AngloGold Ashanti secured regional district scale opportunities surrounding La Colosa and is continuing with regional targeting of

similar gold-rich porphyry mineralisation.

MINERAL RESOURCE ESTIMATION

Gramalote

At Gramalote, about 103,744m of drilling (74,652m at Gramalote Central and 11,249m at the Trinidad area and 17,843m at Monjas

West area) was used to support the estimation of Inferred, Indicated and Measured Mineral Resource. Mineral Resource modeling

was performed using a geological model based on alteration, vein abundance and gold grade. Assay gold grades composited to

2-metre down-hole intervals and outliers are capped based on the distribution observations using probability plots by each estimation

domains, The geostatistical technique of UC was used to estimate block grades and quantify the effect of selective mining. All available

geological drill hole and mapping information, both surface and underground, has been validated for use in the modelling process.

La Colosa

At La Colosa, some 109,000m of drilling was used to support the estimation of an Inferred Mineral Resource. Gold grades were

estimated using Ordinary Kriging. Kriging was performed into a block size of 50m x 50m x 10m using lithological domains (wireframes)

in a grade-based mineralisation envelope and also for the waste surrounding the mineralisation. All available geological drill hole,

surface sampling and mapping information has been validated for use in the modelling process.

MINERAL RESOURCE AND ORE RESERVE REPORT 2013

LOCATION

The Gramalote property is located on the eastern flank of the Cordillera Central near the town of Providencia and San Jose del Nus

in the municipality of San Roque, northwest of the Department of Antioquia, Colombia. It is approximately 230km northwest of the

Colombian capital of Bogota and 124km northeast of Medellin which is the regional capital of Antioquia Department, with a population

of more than two million people. The municipalities of San Roque and Maceo are within 20km of the project site. GEOLOGY

The Gramalote gold deposit is hosted in the late-Cretaceous Antioquia Batholith. This intrusive covers an area of approximately

7,200km

2

, and composes the core of the Central Cordillera at the Antioquia Department. The Antioquia Batholith is composed of

92% tonalite and granodiorite, with the remaining 8% comprising two subordinate rock types: granodiorite to quartz-monzonite

and gabbro.

Gramalote is interpreted to be an intrusive-hosted structurally-controlled stockwork gold and silver deposit. Gold mineralisation is

controlled by northeast-southwest trending shear zones and north-northwest to south-southeast trending shear extensional zones

affecting the tonalites and granodiorites of the Antioquia Batholith. Mineralisation is associated with stockwork veining, particularly

quartz with fine-pyrite veins, quartz-carbonate veins, and quartz with coarse pyrite veins.

The deposit is completely hosted by medium- to coarse-grained biotite +\- hornblende tonalite and granodiorite. Detailed lithology,

alteration and structural mapping within the Gramalote Ridge area emphasizes the homogeneity of the tonalite intrusive with more than

95% of the rock mass comprised of tonalite-granodiorite. Alteration assemblages related to mineralisation are variable and are closely

linked to the structural evolution of the area.

The Gramalote Project comprises three distinct deposits, Central Gramalote, Trinidad and Monjas West within a greater mineral

tenement block of some 35,000 hectares exclusively retained under license by the joint venture.

The main zone of mineralisation defined by drilling has been traced along strike to the northeast for approximately 1,100m.

Mineralisation occurs within several zones that periodically coalesce both along strike and down-dip. Zones vary in width from tens of

metres to 200 metres in true width with vertical to sub-vertical dips to the south-southeast. The Trinidad mineralised zone is located

approximately three km north-northwest of the Gramalote Ridge. Monjas West is located 2.6km along the westward strike extension

of the Gramalote Ridge zone. The style of alteration and mineralisation of both satellite deposits is similar to the Gramalote Ridge area.

A total of 464 drill holes (plus an underground tunnel) have been completed at Gramalote Ridge and the nearby exploration targets

totalling 130,783m. AngloGold Ashanti drilled a total of 46 diamond drill holes (13,063m) and completed a 240m horizontal exploration

tunnel in 2006 and 2007. B2Gold drilled an additional 89 diamond drill holes (29,978 metres), of which 66 were in the Gramalote Ridge

area (21,967m), and took additional channel samples in the tunnel in 2008. Gramalote Colombia Limited drilled a total of 82,092m

distributed among 253 diamond drill holes and 5,650m of RC drilling distributed in 76 holes drilled in Gramalote Hill on a drilling pattern

of 12.5m x 12.5m as a grade control trial.

Based upon regional and property scale mapping, Gramalote Ridge and surrounding zones of interest are located between two

WNW-trending macro-scale curved lineaments which splay off the Palestina fault to the east and transect the Antioquia Batholith.

These include the Nus River lineament and the El Socorro lineament. Differential movement along the Nus and El Socorro lineaments

is thought to have generated NNW, NS and NE striking tensional dilation within the tonalite, reflected in the formation of stockwork

style as well as sheeted quartz and quartz carbonate veins.

EXPLORATION

Exploration strategy during 2013 was focused on two deposits, Gramalote Central, where a drilling programme aimed to confirm

potential Mineral Resource was carried out and Monjas West where a drilling programme was designed to confirm and upgrade the

Inferred Mineral Resource. In addition to these, sterilisation, infrastructure, hydrogeology and geotechnical drilling were performed.

Based on lithological continuity, similar structural setting and mineralisation style and the presence of historical artisanal mining

extending along the entire area, the further exploration potential in the district is judged to be high. There is a large tenement position

that has only been explored over less than 15% of its area. GCL is advancing a comprehensive exploration programme led by

geophysical and geochemical surveys to assist in defining exploration targets that are expected to confirm the existing Mineral

Resource and expand the known mineralisation endowment.

GRAMALOTE

169

AMERICAS

SECTION FOUR

SECTION FIVE

SECTION SIX

SECTION THREE

SECTION TWO

SECTION ONE

2.55 0.00 -0.11 0.00 0.75 -0.10 0.00 0.00 3.09 Ounces (millions) 3.2 3.1 3.0 2.9 2.8 2.7 2.6 2.5 2.4 2.3 2012 Depletion Gold price Cost Exploration Methodology Other Acquisition/ Disposal 2013 Gramalote **Mineral Resource reconciliation: 2012 to 2013** 0.00 0.25 0.50 0.75 1.00 1.25 1.50 1.75 2.00 Tonnes above

cut-off (millions)

Average
grade
above
cut-off (g/t)
Cut-off grade (g/t)
3.0
2.5
2.0
1.5
1.0
0.5
0.0
350
300
250
200
150
100
50
Tonnes above cut-off
Ave grade above cut-off
Gramalote
Grade tonnage curve – Surface (metric)
GRAMALOTE
continued
MINERAL RESOURCE
Details of average drill-hole spacing and type in relation to Mineral Resource classification
Type of drilling
Mine/Project
Category
Spacing
m (-x-)
Diamond
RC
Blast-hole Channel
Other
Comments
Gramalote
Measured
25x25
_
_
Indicated
50x50
_

Inferred 100x100 Grade/Ore Control 12x12 Test Grade Control pattern completed to confirm the UC parameters, these drill holes were not included in the official model Inclusive Mineral Resource as at 31 December 2013 **Tonnes** Grade **Contained gold** Gramalote Category million g/t **Tonnes** Moz Main Zone Measured 14.80 0.79 11.62 0.37 Indicated 50.52 0.59 29.75 0.96 Inferred 64.74 0.43 27.58 0.89 Total 130.06 0.53 68.95 2.22

Trinidad

Measured Indicated Inferred 45.50 0.41 18.72 0.60 Total 45.50 0.41 18.72 0.60 Monjas West Measured Indicated 2.38 0.55 1.32 0.04 Inferred 12.00 0.59 7.07 0.23 Total 14.38 0.58 8.39 0.27 Gramalote Total 189.94 0.51 96.06 All the Mineral Resource is exclusive and below infrastructure. MINERAL RESOURCE AND ORE RESERVE REPORT 2013

170

COMPETENT PERSONS

Category

Competent Person

Professional

organisation

Membership

number

Relevant

experience

Qualification

Mineral Resource

Claudio Devaux

MAusIMM

315 689

26 years

BSc (Geology)

171

AMERICAS

SECTION FOUR

SECTION FIVE

SECTION SIX

SECTION THREE

SECTION TWO

SECTION ONE

LOCATION

The project is located 150km west of Colombia's capital city, Bogota, and 30km west of the major town of Ibague, which is the capital

of the Tolima department and the location of local government entities monitoring the project.

Mineralisation at La Colosa was discovered by AngloGold Ashanti's Colombian greenfields exploration team in 2006. Drilling commenced

in 2007 and a conceptual study was completed in 2008. Pre-feasibility studies commenced in September 2008 and are ongoing.

The project is wholly owned by AngloGold Ashanti.

GEOLOGY

The La Colosa project is centered on a late Miocene (8.1 Ma) multiphase diorite porphyry gold complex intruded into reduced Paleozoic

metasedimentary rocks. Although the porphyry system is generally copper-poor, a 0.1 - 0.2% Cu anomaly associated with Mo>150

ppm occurs laterally and at depth. The highest grade gold mineralisation is closely associated with a suite of early porphyry intrusions/

breccias with potassic and sodic-calcic alteration, high intensity of Au-sulphide veinlets and sulphur values generally exceeding 2.5 %.

The multiphase diorite porphyry gold complex can be divided into three phases (early, intermineral and late) and is elliptical in shape

with a known maximum north-south axis of at least 1,200m. The complex strikes N10W with a dip of 75° east-northeast, the contacts

are mostly structurally bound. Intermineral and late dacitic dikes extend both north and south into the foliated schistose hornfels.

Extension drilling better defined the porphyry contacts and high grade mineralisation along structural corridors.

Additional upside for

mineralisation occurs at the NW extension of the porphyry and structurally controlled along the La Colosa creek fault complex.

San Antonio is a separate much smaller porphyry centre 1.2km south of La Colosa and characterised by hydrothermal and intrusion

breccias associated with inter-mineral diorites and a late dacite stock.

Alteration and mineralisation

The paragenesis of the main alteration starts with pervasive sodic-calcic alteration overprinted by potassic alteration and in turn,

cut by a sodic-calcic event. Potassic alteration, biotite and subordinate K-feldspar, occurs mainly as a pervasive replacement of the

porphyries, especially the early phases. The second sodic-calcic alteration clearly overprints the potassic assemblage and is largely

confined to irregular, centimetre-scale patches and well-defined veinlets.

The early and intermineral porphyry appear to have been altered and mineralised at the time of their intrusion, since there is scant

evidence of veinlets crossing intrusive contacts. The gold content generally declines from early to intermineral diorite and is lowest for

late dacite porphyry.

The veinlets at La Colosa appear to span the potassic to sodic-calcic alteration envents. The earliest veinlets are composed of quartz,

biotite, K-feldspar, albite, actinolite, magnetite, pyrite, pyrrhotite plus minor chalcopyrite and molybdenite. The veinlets may be either

quartz or magnetite dominant, quartz-rich veinlets have the characteristics of both A- and B-types in porphyry copper systems.

The main control of the bulk gold grade in the porphyry complex is the intrusive phase in which the mineralisation is hosted. Early

intrusive phases present higher and more-consistent gold grades (average >0.9g/t). The inter-mineral diorite has average gold grades

of less than 0.7g/t, the late dacite phase generally has only >0.3g/t gold grades close to the contact with early diorite phases.

The limited high-grade zone in the northeast forming the >1.5g/t envelope is centered on north-south striking, steeply-dipping

eastward faults within a >100m wide zone of deformation. Hydrothermal alteration indicative for elevated gold grades vectors towards

a weak sericite-illite-carbonate overprint.

Gold deportment and geometallurgy

Geometallurgical studies related to comminution modeling focused on obtaining hardness parameters. This metallurgical data has

been correlated with multi-element assay and spectral mineralogical data to obtain proxies for metallurgical parameters.

EXPLORATION

The La Colosa Mineral Resource is located in a forest reserve as defined by the Colombian Government. An area of 6.39ha has

been temporarily extracted within a boundary of 515ha allowing for drill platforms, access and camp sites. An area exchange forest

extraction programme allows for an additional 141 platforms to be prepared.

The current exploration strategy is to define the overall limits of the deposit.

The drilling programme is ongoing and a total of 109,114m (276 holes) has been drilled to support the estimation of the Inferred

Mineral Resource. The overall increase in the Mineral Resource at La Colosa is related to mineralisation found at the Belgica hornfels-

diorite contact zone and extension of known mineralisation at depth.

LA COLOSA

MINERAL RESOURCE AND ORE RESERVE REPORT **2013 172**

AMERICAS
173
SECTION FOUR
SECTION FIVE
SECTION SIX
SECTION THREE
SECTION TWO
SECTION ONE

An oxide potential has been recognised and is related to secondary enrichment, mostly occurring in the north and northeast of the

extracted exploration area.

PROJECTS

The Mineral Resource drilling plan for 2014 will focus on:

•

extension drilling at La Colosa NW;

•

infill drilling of the high-grade starter pit area;

•

oxide drilling at La Colosa ridge; and

•

oxide drilling at P10 east of La Colosa fault.

Additional drilling will be carried out for hydrogeological and geotechnical studies.

A detailed structural geological model is required for starter-pit (and backfill) areas in the metamorphic rocks and for defining the limits

of mineralisation in higher-grade sectors. This work was initiated in 2011 and is on-going. The La Colosa porphyry centre appears

to be related to a north-east opening graben structure. High-grade intercepts are related to northwest-southeast brittle structures.

The average drill spacing of 100m x 100m has been reviewed for Mineral Resource classification. Conversion to Indicated Mineral

Resource will require the construction of additional platforms, permission for which was obtained in the last temporary forest extraction

solution.

MINERAL RESOURCE

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

Type of drilling

Mine/Project

C 4

Category

Spacing

m (-x-)

Diamond

RC

Blast-hole Channel

Other

Comments

La Colosa

Measured

_

_

_

_

Indicated

-

_

_

_

_

Inferred 100 x 100 Grade/Ore Control Inclusive Mineral Resource as at 31 December 2013 **Tonnes** Grade **Contained gold** La Colosa Category million g/t **Tonnes** Moz Open pit Measured Indicated Inferred 1,039.49 0.84 872.55 28.05 La Colosa Total 1,039.49 0.84 872.55 28.05 The La Colosa Mineral Resource is reported at a cut-off grade of 0.3g/t. The mineralisation has been classified as an

Inferred Mineral

Resource on the basis of an average drill-hole spacing of 100m x 100m. All the Mineral Resource is exclusive and below infrastructure.

LA COLOSA

continued

MINERAL RESOURCE AND ORE RESERVE REPORT

2013

174

COMPETENT PERSONS

Category

Competent Person

Professional

organisation

Membership

number

Relevant

experience

Qualification

Mineral Resource

Rudolf Jahoda

MAusIMM

990 544

22 years

MSc (Mining Geology)

PhD (Geology)

 $0.00\ 0.25\ 0.50\ 0.75\ 1.00\ 1.25\ 1.50$

2.00

1.75

2.25 2.50 2.75 2.80

Tonnes

above

cut-off

(millions)

Average

grade

above

cut-off (g/t)

Cut-off grade (g/t)

4.0

3.5

3.0

2.5

2.0

1.5

1.0

0.5

0.0

1,600

1,400

1,200

1,000

800

600

400

200

0

Tonnes above cut-off

Ave grade above cut-off

La Colosa

Grade tonnage curve – Surface (metric) 26.84 0.00 -4.10 0.00 5.32 0.00 0.00 0.00 28.05 Ounces (millions) 29.0 28.0 27.0 26.0 25.0 24.0 23.0 22.0 21.0 2012 Depletion Gold price Cost Exploration Methodology Other Acquisition/ Disposal 2013 La Colosa Mineral Resource reconciliation: 2012 to 2013 175 **AMERICAS**

SECTION FOUR SECTION FIVE SECTION SIX SECTION THREE SECTION TWO SECTION ONE

COUNTRY OVERVIEW

AngloGold Ashanti currently operates one mine in the United States of America near Cripple Creek, Colorado. The Cresson Mine is

operated by the Cripple Creek and Victor Gold Mining Company (CC&V), a wholly-owned subsidiary of AngloGold Ashanti Ltd.

CC&V currently controls over 85% of the patented claims within the district and 100% of the land containing the 2012 Mineral

Resource. The Ore Reserve and Mineral Resource are stated at 100% ownership basis, although portions of the Ore Reserve are

subject to third-party royalties that vary according to individual agreements with the underlying property owner.

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. The estimation method is Multiple Indicator Kriging (MIK) and the primary variable estimated is

the recoverable gold.

An estimated iron and oxide block model is utilised to interpolate block-specific coefficients for input into the metallurgical recovery

function. The method for calculating nominal shake leach values is a regression technique using geologically-logged categorical

variables. 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 on lithology and structural domains for each deposit.

ORE RESERVE ESTIMATION

The Ore Reserve pit designs were based on Lerchs-Grossmann (LG) optimisations of the Mineral Resource 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 range between 32° and 57°. All pits were designed using a

35 feet (10.7m) bench height except South Cresson, which utilises 20 feet (6.1m).

UNITED STATES OF AMERICA

Used with permission.

Pen and ink drawing of the historic

Portland II headframe by the late

Cherry Hunter.

MINERAL RESOURCE AND ORE RESERVE REPORT 2013

176

CC&V

LOCATION

The mining operations at CC&V are located in central Colorado, USA, approximately 25km east of Colorado Springs. The mining

district is located between the communities of Cripple Creek, to the northwest, and Victor, in the south.

The district is known for its historic underground mining activities which produced nearly 20 million ounces of gold from narrow, high-

grade, sheeted vein systems that contained gold-telluride mineralisation.

Currently, the mining activities are large, low-grade open-pit operations that utilise shovels and haul trucks to efficiently move as much

material as possible. CC&V has produced nearly 4.5Moz of gold since 1995.

GEOLOGY

The dominant geological feature of the district is a 34Ma to 28Ma diatreme-intrusive that erupted through Precambrian rocks. 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 or any combination of the three. Early intrusions are predominantly within these alkaline phonolite-phonotephrite series of

rocks and were followed by later lamprophyres. All rocks have undergone minor structural deformation and a complex history of

hydrothermal alteration. Gold mineralisation, dated between 27.8Ma and 26.6Ma, is hosted in all rock types and constrained in veins.

The mineralisation can also be disseminated or can occur in structurally-controlled deposits. Primary ore minerals include microscopic

native gold, native gold with pyrite and gold tellurides. Silver is present but has minimal economic importance.

EXPLORATION

Exploration activities during 2013 focused on three different programmes:

upgrading of the Mineral Resource to allow for conversion to Ore Reserve for the low-grade, heap-leach operations;

further definition of higher-grade zones within the open-pit design shells; and

drill testing of high-grade zones that lie outside the pit designs, but could be mined by underground methods. Nearly 44,000m were drilled during 2013, which included approximately 36,000m of RC drilling and 8,000m of DD. PROJECTS

The exploration activities were conducted under the Mine Life Extension-2 (MLE-2) project as well as the Underground project. MLE-2

is evaluating the extension of the mine life by adding low-grade, heap-leach tonnes to the Ore Reserve with the construction of a plant

to process high-grade zones of mineralisation that are intersected during the open-pit mining activity. The underground programme is

exploring for an additional Mineral Resource that is suitable for mining underground to supplement plant feed.

177

AMERICAS

SECTION FOUR

SECTION FIVE

SECTION SIX

SECTION THREE

SECTION TWO

SECTION ONE

Edgar Filing: ANGLOGOLD ASHANTI LTD - Form 6-K CC&V continued MINERAL RESOURCE Details of average drill-hole spacing and type in relation to Mineral Resource classification Type of drilling Mine/Project Category **Spacing** m (-x-) **Diamond RC Blast-hole Channel** Other **Comments** CC&V Measured 5 x 6, 30 x 30 *Blasthole drilling primary. In some cases RC is primary, diamond drill core is used for confirmation of RC drilling results, metallurgical testing and geotechnical high wall design. Indicated 45 x 45 RC primary, diamond drill core is used for confirmation of RC drilling results, metallurgical testing and geotechnical high wall design. Inferred 75 x 75 Grade/Ore Control 5 x 6

*Blasthole drilling primary, RC & diamond drilling

519

included.

* Angled RC drilling implemented in 2013 for selective mining of mill ore.

Inclusive Mineral Resource

as at 31 December 2013

Tonnes

Grade

Contained gold

CC&V

Category

million

g/t

Tonnes

Moz

Cresson

Measured

93.36

0.65

60.89

1.96

Indicated

75.72

0.59

44.83

1.44

Inferred

21.30

0.59

12.57

0.40

Total

190.38

0.62

118.29

3.80

South Cresson

Measured

20.82

0.80

16.68

0.54

Indicated

7.77

0.97

7.55

0.24

Inferred

2.68

1.27

3.39

0.11

Total

31.27

0.88

27.62 0.89 Wild Horse Measured 6.13 0.61 3.77 0.12 Indicated 3.16 0.63 2.01 0.06 Inferred 0.94 0.53 0.50 0.02 Total 10.23 0.61 6.27 0.20 Wild Horse Extension Measured 35.13 1.16 40.81 1.31 Indicated 14.17 0.84 11.88 0.38 Inferred 1.09 0.55 0.60 0.02 Total 50.38 1.06 53.29 1.71 Altman Measured 17.25 1.06 18.35 0.59

Indicated

- 11.47
- 1.00
- 11.50
- 0.37
- Inferred
- 4.16
- 1.05
- 4.36
- 0.14
- Total
- 32.89
- 32.07
- 1.04
- 34.21
- 1.10
- Globe Hill
- Measured
- 40.70
- 0.59
- 24.05
- 0.77
- Indicated
- 36.15
- 0.61
- 22.12
- 0.71
- Inferred
- 10.14
- 0.75
- 7.59
- 0.24
- Total
- 86.98
- 0.62
- 53.76
- 1.73
- Ironclad
- Measured
- 9.13
- 0.58
- 5.30
- 0.17
- Indicated
- 11.88
- 0.53
- 6.28
- 0.20
- Inferred
- 9.18
- 0.51
- 4.68
- 0.15

30.20 0.54 16.26 0.52 Schist Island Measured 26.08 0.70 18.13 0.58 Indicated 12.85 0.61 7.89 0.25 Inferred 1.76 0.47 0.83 0.03 Total 40.69 0.66 26.85 0.86 Stockpiles Measured 0.64 1.09 0.70 0.02 Indicated Inferred Total 0.64 1.09 0.70 0.02 CC&V Total 473.66 0.71

Total

337.24

10.84

179

AMERICAS

SECTION FOUR

SECTION FIVE

SECTION SIX

SECTION THREE

SECTION TWO

SECTION ONE

Exclusive Mineral Resource as at 31 December 2013 **Tonnes** Grade **Contained gold** CC&V Category million g/t **Tonnes** Moz Measured 127.24 0.67 85.85 2.76 Indicated 112.52 0.63 70.38 2.26 Inferred 51.24 0.67 34.50 1.11 CC&V Total 291.00 0.66 190.74 6.13 The Exclusive Mineral Resource material lies immediately outside the designed shells that hold the Ore Reserve. The mineralised zones are generally extensions of those seen within the Ore Reserve shells and additional drilling will allow for some of the Mineral Resource to be converted to Ore Reserve. 12.90 -0.58 -0.66 -0.57 0.21 -0.78

0.00 0.00 10.84 Ounces (millions) 13.0 12.5 12.0

12.0 11.5 11.0 10.5 10.0 2012 Depletion Gold price Cost Exploration Methodology Other Acquisition/ Disposal 2013 CC&V Mineral Resource reconciliation: 2012 to 2013 5.88 -0.69 -0.01 -0.50 0.00 0.02 0.00 0.00 4.71 Ounces (millions) 6.0 5.8 5.6 5.4 5.2 4.8 4.6 4.4 2012 Other 2013 Ore Reserve reconciliation: 2012 to 2013 Depletion Model change **Economics**

New

ounces from **Projects** Scope Change Acquisition/ Disposal CC&V continued ORE RESERVE Ore Reserve as at 31 December 2013 **Tonnes** Grade **Contained gold** CC&V Category million g/t **Tonnes** Moz Cresson Proved 22.97 1.00 22.93 0.74 Probable 12.14 0.91 11.09 0.36 Total 35.11 0.97 34.03 1.09 South Cresson Proved 18.21 0.74 13.50 0.43 Probable 4.72 0.84 3.97 0.13 Total

22.930.76

17.47 0.56 Wild Horse Extension Proved 28.08 1.16 32.52 1.05 Probable 10.00 0.81 8.11 0.26 Total 38.08 1.07 40.62 1.31 Globe Hill Proved 35.50 0.60 21.28 0.68 Probable 27.66 0.60 16.60 0.53 Total 63.16 0.60 37.87 1.22 Schist Island Proved 16.61 0.72 11.90 0.38 Probable 6.12 0.64 3.91 0.13 Total 22.73 0.70 15.81

0.51 Stockpiles

Proved 0.64 1.09 0.70 0.02 Probable Total 0.64 1.09 0.70 0.02 CC&V Total 182.65 0.80 146.50 4.71

180

MINERAL RESOURCE AND ORE RESERVE REPORT 2013

Ore Reserve modifying factors

31 December 2013

CC&V

Gold

price

US\$/oz

Cut-off

value

g/t Au

Dilution

%

Dilution

g/t

%

RMF

(based

on

tonnes)

%

RMF

(based

on g/t)

%

MRF

(based

on

tonnes)

%

MRF

(based

on g/t)

MCF

%

MetRF

%

Cresson

1,100

0.12

2.5

_

93.0

96.0

102.0

96.0

100.0

43.0 to 95.0*

Globe Hill

1,100

0.16

2.5

_

100.0 100.0 100.0 100.0 100.0 43.0 to 95.0* Schist Island 1,100 0.16 2.5 100.0 100.0 100.0 100.0 100.0 43.0 to 95.0* South Cresson 1,100 0.12 2.5 100.0 100.0 100.0 100.0 100.0 43.0 to 95.0* Wild Horse Extension 1,100 0.16 2.5 100.0 95.2 100.0 97.0 100.0 43.0 to 95.0* All ore control, plant and Mineral Resource model numbers use recoverable grade. * Recovery factor varies according to ore type. Inferred Mineral Resource in business plan as at 31 December 2013 **Tonnes** million Grade **Contained gold** CC&V **Tonnes Moz**

Comment

Cresson 0.31 0.99 0.31 0.01 South Cresson 0.89 1.29 1.15 0.04 Wild Horse Extension 0.44 0.56 0.25 0.01 Globe Hill 5.76 0.57 3.29 0.11 Schist Island 0.49 0.49 0.24 0.01 Total 7.89 0.66 5.23 0.17 181 **AMERICAS SECTION FOUR SECTION FIVE SECTION SIX SECTION THREE SECTION TWO SECTION ONE**

0.0 0.2 0.1 0.4 0.3 0.5 0.7 0.8 0.6 0.9 1.0 1.1 1.2 1.3 1.4 **Tonnes** above cut-off (millions) Average grade above cut-off (g/t) Cut-off grade (g/t) 4.0 3.5 3.0 2.5 2.0 1.5 1.0 0.5 0.0 600 500 400 300 200 100 Tonnes above cut-off

Tonnes above cut-off
Ave grade above cut-off

CC&V

Grade tonnage curve – Surface (metric)

CC&V

continued

The Inferred Mineral Resource in the business plan is approximately 4.3% of the Proved and Probable Ore Reserve tonnes and 3.6% of the Proved and Probable Ore Reserve ounces of gold.

The Inferred Mineral Resource is not used in the optimisation process for the Ore Reserve shells. The Inferred Mineral Resource is generally located near the surface of pits that have not yet been mined. Some of this material is also found at the bottom of the Ore Reserve pits where the drill density is not as

quite as uniform as in other areas.

COMPETENT PERSONS

Category

Competent Person

Professional

organisation

Membership

number

Relevant

experience

Qualification

Mineral Resource

Tim Brown

MAusIMM

226 857

27 years

BSc (Geology)

MBA

MSc (Geology)

Ore Reserve

Greg Gibson

SME

4134135 RM

10 years

BSc (Mining Engineering)

MSc (Mining Engineering)

MINERAL RESOURCE AND ORE RESERVE REPORT 2013

182

AMERICAS
183
SECTION FOUR
SECTION FIVE
SECTION SIX
SECTION THREE
SECTION TWO
SECTION ONE

ADMINISTRATIVE
INFORMATION
SECTION
SIX
P184-190
MINERAL RESOURCE AND ORE RESERVE REPORT 2013
184

DEFINITIONS

MINERAL RESOURCE

The JORC Code, 2012 edition, definition of a Mineral Resource is as follows:

A 'Mineral Resource' is a concentration or occurrence of solid material of economic interest in or on the Earth's crust in such

form, grade (or quality), and quantity that there are reasonable prospects for eventual economic extraction. The location,

quantity, grade (or quality), continuity and other geological characteristics of a Mineral Resource are known, estimated or

interpreted from specific geological evidence and knowledge, including sampling. Mineral Resources are sub-divided, in

order of increasing geological confidence, into Inferred, Indicated and Measured categories.

All reports of Mineral Resources must satisfy the requirement that there are reasonable prospects for eventual economic extraction

(i.e. more likely than not), regardless of the classification of the Mineral Resource. Portions of a deposit that do not have reasonable

prospects for eventual economic extraction are not included in a Mineral Resource.

The Mineral Resource is estimated using all drilling and sampling information along with a detailed geological model.

The geological models are based on various combinations of 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 relevant class of gold deposits.

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 Co-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:

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

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.

•

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 and involves expressing the $^{\circ}15\%$

Rule' as a required level of information, in tangible terms the spacing of the drill hole or tunnel spacing in a particular deposit.

Techniques such as conditional simulation or even an empirical reconciliation-based approach are employed.

However, all operations

are responsible for demonstrating, through reconciliation, that their classification system conforms to the 15% rule set out above.

185

ADMINISTRATIVE INFORMATION

SECTION FOUR

SECTION FIVE

SECTION SIX

SECTION THREE

SECTION TWO

SECTION ONE

DEFINITIONS

continued

The Inferred Mineral Resource category is intended to cover situations in which a mineral concentration or occurrence has been

identified and limited measurements and sampling have been completed, but in which the data are insufficient to allow the geological

or grade continuity to be interpreted with confidence. Due to the uncertainty that may be attached to some Inferred Mineral Resources,

it cannot be assumed that all or part of an Inferred Mineral Resource will necessarily be upgraded to an Indicated or Measured Mineral

Resource after continued exploration.

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 pit shell/mine design and the Mineral Resource pit

shell. This material will become economic if the gold price increases; and

•

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

ORE RESERVE

The JORC Code, 2012 edition, 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 or extracted and is defined by studies at

Pre-Feasibility or Feasibility level as appropriate that include application of Modifying Factors. Such studies demonstrate

that, at the time of reporting, extraction could reasonably be justified.

The reference point at which Reserves are defined, usually the point where the ore is delivered to the processing plant, must be stated. It is important that, in all situations where the reference point is different, such as for a saleable product, a

clarifying statement is included to ensure that the reader is fully informed as to what is being reported.

Ore Reserves are sub-divided in order of increasing confidence into Probable Ore Reserves and Proved Ore Reserves. In the underground operations, the Ore Reserve is based on a full mine design and in the case of open pits on a pit optimisation

followed by a final pit design. The Ore Reserve is 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 the Ore Reserve included for treatment in the business plan production schedule is considered in the Ore Reserve statement.

Inferred Mineral Resource is not included in the Ore Reserve statement.

For all new projects, an audited pre-feasibility (as a minimum requirement) must have been completed that demonstrates the viability

of the project and meets the company's investment requirements. This study must be signed off at the appropriate executive level in

order to demonstrate an intent on the part of the company to proceed to feasibility and ultimately to implement the project.

MINERAL RESOURCE AND ORE RESERVE REPORT 2013

186

GLOSSARY OF TERMS

ALL TERMS

BIF: Banded Ironstone Formation. A chemically formed ironrich sedimentary rock.

By-products: Any potentially economic or saleable products that emanate from the core process of producing gold, including silver, uranium and sulphuric acid.

Calc-silicate rock: A metamorphic rock consisting mainly of calcium-bearing silicates such as diopside and wollastonite, often formed by metamorphism of impure limestone or dolomite. Capital expenditure: Total capital expenditure on tangible assets which includes stay-in-business and project capital. Carbon-in-leach (CIL): Gold is leached from a slurry of ore with cyanide in agitated tanks and adsorbed on to activated carbon granules at the same time (i.e. when cyanide is introduced in the leach tank, there is already activated carbon in the tank and

there is no distinction between leach and adsorption stages). The carbon granules are separated from the slurry and treated in an elution circuit to remove the gold.

Carbon-in-pulp (CIP): Gold is leached conventionally from a slurry of ore with cyanide in agitated tanks. The leached slurry then passes into the CIP circuit where activated carbon granules are mixed with the slurry and gold is adsorbed on to the activated carbon. The gold-loaded carbon is separated from the slurry and treated in an elution circuit to remove the gold.

Comminution: The crushing and grinding of ore to make gold available for physical or chemical separation. (See also "Milling").

Contained gold: The total gold content (tonnes multiplied by grade) of the material being described.

Cut-off grade – surface mines (COG): The minimum grade at which a unit of ore will be mined to achieve the desired economic outcome.

Dense media separation (DMS): Using high density liquids to separate ore.

Depletion: The decrease in quantity of ore in a deposit or property resulting from extraction or production.

Development: The process of accessing a deposit through shafts and/or tunnelling in underground mining operations. Electro-winning: A process of recovering gold from solution by means of electrolytic chemical reaction into a form that can be smelted easily into gold bars.

Elution: Recovery of the gold from the activated carbon into solution before zinc precipitation or electro-winning.

Feasibility Study: A comprehensive technical and economic study of the selected development option for a mineral project that includes appropriately detailed assessments of applicable Modifying Factors together with any other relevant operational factors and detailed financial analysis that are necessary to demonstrate at the time of reporting that extraction is reasonably justified (economically mineable). The results of the

study may reasonably serve as the basis for a final decision by a proponent or financial institution to proceed with, or finance, the development of the project. The confidence level of the study will be higher than that of a Pre-Feasibility Study (JORC 2012). Flotation: Concentration of gold and gold-hosting minerals into a small mass by various techniques (e.g. collectors, frothers, agitation, air-flow) that collectively enhance the buoyancy of the target minerals, relative to unwanted gangue, for recovery into an over-flowing froth phase.

Full grade ore (FGO): Ore material with sufficient grade to carry the full operating cost. FGO cut-off is the break-even grade where cost is representative of all costs to carry the full operation excluding direct mining cost.

Gold produced: Refined gold in a saleable form derived from the mining process.

Grade: The quantity of gold contained within a unit weight of gold-bearing material generally expressed in grams per metric tonne (g/t), or ounces per short ton of ore (oz/t).

Indicated Mineral Resource:

That part of a Mineral Resource

for which quantity, grade (or quality), densities, shape and physical characteristics are estimated with sufficient confidence to allow the application of Modifying Factors in sufficient detail to support mine planning and evaluation of the economic viability of the deposit. Geological evidence is derived from adequately detailed and reliable exploration, sampling and testing gathered through appropriate techniques from locations such as outcrops, trenches, pits, workings and drill holes, and is sufficient to assume geological and grade (or quality) continuity between points of observation where data and samples are gathered. An Indicated Mineral Resource has a lower level of confidence than that applying to a Measured Mineral Resource and may only be converted to a Probable Ore Reserve (JORC 2012).

Inferred Mineral Resource: That part of a Mineral Resource for which quantity and grade (or quality) are estimated on the basis of limited geological evidence and sampling. Geological evidence is sufficient to imply but not verify geological and grade

187

ADMINISTRATIVE INFORMATION

SECTION FOUR

SECTION FIVE

SECTION SIX

SECTION THREE

SECTION TWO

SECTION ONE

GLOSSARY OF TERMS

continued

(or quality) continuity. It is based on exploration, sampling and testing information gathered through appropriate techniques from locations such as outcrops, trenches, pits, workings and drill holes. An Inferred Mineral Resource has a lower level of confidence than that applying to an Indicated Mineral Resource and must not be converted to an Ore Reserve. It is reasonably expected that the majority of Inferred Mineral Resources could be upgraded to Indicated Mineral Resources with continued exploration (JORC 2012).

Induced Polarisation (IP): A geophysical technique widely used in the exploration for deposits.

Leaching: Dissolution of gold from crushed or milled material, including reclaimed slime, prior to adsorption on to activated carbon or direct zinc precipitation.

Life of Mine (LOM): Number of years that the operation is planning to mine and treat ore, as taken from the current mine plan.

Marginal ore (MO): Ore material with grade below the FGO cut-off that can be economically treated at the end of mine life when overhead and mining costs are reduced. MO cut-off is the break-even grade where cost is representative of the reduced cost that will be experienced after mining has ended. Measured Mineral Resource: That part of a Mineral Resource for which quantity, grade (or quality), densities, shape, and physical characteristics are estimated with confidence sufficient to allow the application of Modifying Factors to support detailed mine planning and final evaluation of the economic viability of the deposit. Geological evidence is derived from detailed and reliable exploration, sampling and testing gathered through appropriate techniques from locations such as outcrops, trenches, pits, workings and drill holes, and is sufficient to confirm geological and grade (or quality) continuity between points of observation where data and samples are gathered. A Measured Mineral Resource has a higher level of confidence than that applying to either an Indicated Mineral Resource or an Inferred Mineral Resource. It may be converted to a Proved Ore Reserve or under certain circumstances to a Probable Ore Reserve (JORC 2012).

Metallurgical plant: A processing plant designed to treat ore and extract gold (and in some cases often valuable by-products). Milling: A process of reducing broken ore to a size at which concentrating can be undertaken (See also 'Comminution'). Mine call factor (MCF): The ratio, expressed as a percentage, of the total quantity of recovered and unrecovered mineral product after processing with the amount estimated in the ore based on sampling. The ratio of contained gold delivered to the metallurgical plant divided by the estimated contained gold of ore mined based on sampling.

Metallurgical recovery factor (MetRF): A measure of the

efficiency in extracting gold from the ore deposit.

Mineral deposit: A mineral deposit is a concentration (or occurrence) of material of possible economic interest in or on the Earth's crust.

Mineral Reserve: 'Ore Reserve' is preferred under the JORC Code but 'Mineral Reserve' is in common use in other countries and reporting codes (i.e. SAMREC) and is generally accepted and regarded as synonymous.

Mining recovery factor (MRF): This factor reflects a mining efficiency factor relating the recovery of material during the mining process and is the variance between the tonnes called for in the mining design and what the plant receives. It is expressed in both a grade and tonnage number.

Modifying Factors: Considerations used to convert Mineral Resources to Ore Reserves. These include, but are not restricted to, mining, processing, metallurgical, infrastructure, economic, marketing, legal, environmental, social and governmental factors.

Net present value (NPV): The difference between the present value of cash inflows and the present value of cash outflows. Ounce (oz) (troy): Imperial measure of mass specifically used for precious metals and still the standard measure of mass in the gold industry. A kilogram is equal to 32.1507 troy ounces. A troy ounce is equal to 31.1035 grams.

Pay limit: The grade of a unit of ore at which the revenue from the recovered mineral content of the ore is equal to the total cash cost including Ore Reserve Development and stay-in-business capital. This grade is expressed as an *in-situ* value in grams per tonne or ounces per short ton (before dilution and mineral losses).

Precipitate: The solid product formed when a change in solution chemical conditions results in conversion of some predissolved ions into solid state.

Preliminary Feasibility study (Pre-Feasibility Study):A comprehensive study of a range of options for the technical and economic viability of a mineral project that has advanced to a stage where a preferred mining method, in the case of underground mining, or the pit configuration, in the case of an open pit, is established and an effective method of mineral processing is determined. It includes a financial analysis based MINERAL RESOURCE AND ORE RESERVE REPORT

2013 188 on reasonable assumptions on the Modifying Factors and the evaluation of any other relevant factors which are sufficient for a Competent Person, acting reasonably, to determine if all or part of the Mineral Resources may be converted to an Ore Reserve at the time of reporting. A Pre-Feasibility Study is at a lower confidence level than a Feasibility Study (JORC 2012). Probable Ore Reserve: The economically mineable part of an Indicated, and in some circumstances, a Measured Mineral Resource. The confidence in the Modifying Factors applying to a Probable Ore Reserve is lower than that applying to a Proved Ore Reserve. A Probable Ore Reserve has a lower level of confidence than a Proved Ore Reserve but is of sufficient quality to serve as the basis for a decision on the development of the deposit (JORC2012).

Proved Ore Reserve: The economically mineable part of a Measured Mineral Resource. A Proved Ore Reserve implies a high degree of confidence in the Modifying Factors (JORC2012). Reclamation: In the South African context, reclamation describes the process of reclaiming slimes (tailings) dumps using high-pressure water cannons to form a slurry which is pumped back to the metallurgical plants for processing. Recovered grade: The recovered mineral content per unit of ore treated.

Reef: A gold-bearing horizon, sometimes a conglomerate band that may contain economic levels of gold. Reef can also be any significant or thick gold bearing quartz vein.

Refining: The final purification process of a metal or mineral to a saleable form.

Region: Defines the operational management divisions within AngloGold Ashanti, namely South Africa, Continental Africa (DRC, Ghana, Guinea, Mali, Namibia and Tanzania), Australasia (Australia) and the Americas (Argentina, Brazil, Colombia and the United States of America).

Rehabilitation: The process of returning disturbed land to a stable, productive or self-sustaining condition requiring no ongoing maintenance to meet the post-mining land use objectives and taking into account beneficial uses of the site and surrounding land. Rehabilitation objectives are generally defined in environmental permits but are typically amended during the operational phase of projects through stakeholder engagement processes to ensure post mining land uses are congruent with surrounding and regional land use plans. Rehabilitation methods can vary by location owing to the extent of disturbance and geo-climatic factors and include, among others, the processes of Remediation, Revegetation and Restoration, to address issues such as soil, ground and surface water, contamination, soil erosion and revegetation. Resource modification factor (RMF): This factor is applied when there is an historic reconciliation discrepancy in the Resource model. For example between the Resource Model tonnage and the Grade Control Model tonnage. It is expressed

in both a grade and tonnage number.

Seismic event: A sudden inelastic deformation within a given volume of rock that radiates detectable seismic energy.

Shaft: A vertical or subvertical excavation used for accessing an underground mine; for transporting personnel, equipment and supplies; for hoisting ore and waste; for ventilation and utilities; and/or as an auxiliary exit.

Smelting: A pyro-metallurgical operation in which gold precipitate from electro-winning or zinc precipitation is further separated from impurities.

SMU: The smallest unit that can be mined at a particular operation with the equipment available at that site, reflecting the intended or proposed mining selectively.

Stay-in-business capital: Capital expenditure to maintain existing production assets. This includes replacement of vehicles, plant and machinery, Ore Reserve development and capital expenditure related to safety, health and the environment. Stope: Underground excavation where the mineralised deposit is extracted.

Stoping: The process of excavating ore underground.

Stripping ratio: The ratio of waste tonnes to ore tonnes mined calculated as total tonnes mined less ore tonnes mined divided by ore tonnes mined.

Tailings: Finely ground rock of low residual value from which valuable minerals have been extracted.

Tailings storage facilities: Dam facilities designed to store discarded tailings.

Tonne: Used in metric statistics. Equal to 1,000 kilograms (the International System Units (SI) mass unit).

Tonnage: Quantity of material measured in tonnes.

Waste: Material that contains insufficient mineralisation for consideration for future treatment and, as such, is discarded.

189

ADMINISTRATIVE INFORMATION

SECTION FOUR

SECTION FIVE

SECTION SIX

SECTION THREE

SECTION TWO

SECTION ONE

Degrees Thousand tonnes or tons Minutes kg/t Kilograms per tonne United States dollars km Kilometres 3D Three-dimensional space LIB Long inclined borehole AC Aircore drilling **LOM** Life of Mine Ag Silver M or m Metre or million, depending on the context AngloGold Ashanti Square metre **AGK** Ashanti Goldfields Kilo **MCF** Mine Call Factor **ARS** Argentine peso MetRF Metallurgical Recovery Factor **ASX** Australian Securities Exchange Million pounds Au Contained gold Moz Million ounces **AUD** Australian dollars **MRF** Mining Recovery Factor Avg. Average

mRL Metres relative level **BAL** Balanção Mt Million tonnes (metric) BP Business plan Mtpa Million tonnes per annum **BRL** Brazilian real **NPV** Net present value capex Capital expenditure Ounces (troy) CdS Córrego do Sítio R or ZAR South African rand **CLR** Carbon Leader Reef **RC** Reverse circulation drilling Centimetres **RMF** Resource Modification Factor Centimetre grams per tonne S Sulphur C Reef Crystalkop Reef **SAMREC** The South African Code for the Reporting of Exploration Results, Mineral Resources and Mineral Reserves DD Diamond drilling **SER** Serrotinho deposit **DRC** Democratic Republic of the Congo **SMU** Selective mining unit Dense Media Separation **SSP**

Sadiola Sulphide Project ESIA
Environmental and social impact assessment
t
Tonnes (metric) EM
Electromagnetic
tpa
Tonnes per annum FGS
Fonte Grande Sul TSF
Tailings storage facility
g Croms
Grams
tph
Tonnes per hour
GC
Grade control
tpm
Tonnes per month
g/t
Grams per tonne
U
3
0
8
Uranium Oxide
ha
Hectare
UC
Uniform conditioning
JORC
Australasian Code for Reporting Exploration
Results, Mineral Resources and Ore Reserves
VCR
Ventersdorp Contact Reef
JSE
Johannesburg Stock Exchange Limited
VR
Vaal Reef
kg
Kilograms
XRF
X-ray fluorescence
μm
Microns
ABBREVIATIONS
MINERAL RESOURCE AND ORE RESERVE REPORT 2013
190

ADMINISTRATIVE INFORMATION 7141/13 ANGLOGOLD ASHANTI LIMITED Registration No. 1944/017354/06 Incorporated in the Republic of South Africa Share codes: ISIN: ZAE000043485 JSE: **ANG** LSE: **AGD NYSE:** AU ASX: **AGG** GhSE (Shares): **AGA** GhSE (GhDS): **AAD JSE Sponsor:** UBS (South Africa) (Pty) Limited **Auditors:** Ernst & Young Inc. Offices: Registered and Corporate 76 Jeppe Street Newtown 2001 (PO Box 62117, Marshalltown 2107) South Africa Telephone: +27 11 637 6000 Fax: +27 11 637 6624 Australia Level 13, St Martins Tower 44 St George's Terrace Perth, WA 6000 (PO Box Z5046, Perth WA 6831) Australia Telephone: +61 8 9425 4602 Fax: +61 8 9425 4662 Ghana Gold House Patrice Lumumba Road (PO Box 2665) Accra

Ghana

Telephone: +233 303 772190 Fax: +233 303 778155 **United Kingdom Secretaries** St James's Corporate Services Limited Suite 31, Second floor, 107 Cheapside London EC2V 6DN England Telephone: +44 20 7796 8644 Fax: +44 20 7796 8645 E-mail: jane.kirton@corpserv.co.uk **DIRECTORS** Executive RN Duffy (Chief Financial Officer) S Venkatakrishnan (Chief Executive Officer) Non-executive SM Pityana (Chairman) Prof LW Nkuhlu (Lead Independent Director) R Gasant NP January-Bardill MJ Kirkwood TT Mboweni **RJ** Ruston * British § Indian ~ Australian ^ South African Officers Group General Counsel and Company Secretary ME Sanz Perez Investor relations contacts: South Africa **Stewart Bailey** Telephone: +27 11 637 6031 Mobile: +27 81 032 2563

E-Mail:

sbailey@anglogoldashanti.com

Fundisa Mgidi

Telephone:

+27 11 637 6763

Mobile:

+27 82 374 8820

E-mail:

fmgidi@anglogoldashanti.com

United States

Sabrina Brockman

Telephone:

+1 212 858 7702

Mobile:

+1 646 379 2555

E-mail:

sbrockman@anglogoldashantina.com

General e-mail enquiries:

Investors@anglogoldashanti.com

AngloGold Ashanti website:

www.anglogoldashanti.com

Company secretarial e-mail:

Companysecretary@anglogoldashanti.com

AngloGold Ashanti posts information that is important to investors on the main page of its website at www. anglogoldashanti.com and under the "Investors" tab on the main page. This information is updated regularly. Investors should visit this website to obtain important information about

AngloGold Ashanti.

WWW.ANGLOGOLDASHANTI.COM Download the full Mineral Resource and Ore Reserve Report 2013

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: April 03, 2014

By:

/s/ M E SANZ PEREZ Name: M E Sanz Perez

Title: Group General Counsel and Company

Secretary