

ANGLOGOLD ASHANTI LTD

Form 6-K

June 13, 2016

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 June 13, 2016

Commission File Number 1-14846

AngloGold Ashanti Limited

(Name of registrant)

76 Rahima Moosa Street (formerly 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 **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

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

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

Enclosure: Press release

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AngloGold Ashanti Limited- Market Update Report

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**Market update report
for the quarter ended 31 March 2016**

Johannesburg, 9 May 2016 - AngloGold Ashanti is pleased to provide an operational update for the quart ended 31 March 2016.

Detailed financial and operational results are provided on a six-monthly basis i.e. at the end of June and December.

- Free cash flow was \$70m for the quarter, a strong improvement to the free cash outflow of \$40m in Q 1 2015

- Production was 861,000 oz at an average total cash cost of \$702/oz

- All-in sustaining costs were \$860/oz, a 7% improvement year-on-year

- Net debt lower at \$2.127bn compared to \$2.190bn in the previous quarter

- The outlook for the full year remains unchanged and within previous guidance range

ended

Mar

2016

Q arter

ended

Dec

2015

ended

Mar

2015

Year

ended

Dec

2015

US dollar / Imperial

Operating review

Gold

Produced from continuing operations

- oz (000)

861

997

928

3,830

Produced from discontinued operations

- oz (000)

-

-

41

117

Produced continuing and discontinued operati ns

- oz (000)

861

997

969

3,947

Sold from continuing operations

- oz (000)

876

1,014

952

3,850
Sold from discontinued operations
- oz (000)
-
-
45
115
Sold continuing and discontinued operations
- oz (000)
876
1,014
997
3,965
Continuing operations
Price received
- \$/oz
1,185
1,104
1,217
1,158
All-in sustaining costs
- \$/oz
860
860
920
910
All-in costs
- \$/oz
924
959
999
1,001
Total cash costs
- \$/oz
702
663
734
712
Financial review
Continuing and discontinued operations
Adjusted gross profit
- \$m
210
212
209
721
Free cash inflow / (outflow)
- \$m
70
160
(40)

141
 Net debt
 - \$m
2,127
 2,190
 3,150
 2,190
 Capital expenditure
 - \$m
128
 223
 195
 857

\$ represents US dollar, unless otherwise stated.

Rounding of figures may result in computational discrepancies.

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, total cash costs, all-in sustaining costs, all-in costs, cost savings and other operating results, 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, dispositions or joint venture transactions, 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 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, 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 AngloGold Ashanti's annual reports on Form 20-F filed with the United States Securities and Exchange Commission. 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 hereof 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.

The market update report has not been reviewed or reported on by the Company's external auditors.

Non-GAAP financial measures

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” tab on the main page. This information is updated regularly.

Investors should visit this website to obtain important information about AngloGold Ashanti.

Quarter 1

March 2016 Market update - www.AngloGoldAshanti.com

2016

FINANCIAL AND CORPORATE REVIEW

First quarter overview

AngloGold Ashanti delivered another consistent operating and financial performance for the first quarter of 2016, with a further reduction in debt levels, and solid levels of free cash generation despite weaker production in the period. The result was also achieved despite lower grades, which were offset by tonnage improvements in key areas. Free cash flow for the first quarter of the year was \$70m, a strong improvement to the free cash outflow of \$40m in the first quarter of 2015. Cash inflow from operating activities was positive at \$227m, 19% more than the \$190m achieved in the first quarter of 2015, despite both lower production and a lower gold price received. The strong performance was due mainly to strong cost management and benefits from weaker local currencies against the US dollar, principally in South Africa and Brazil. This is lower when compared to the \$383m cash inflow from operating activities recorded in the fourth quarter of 2015, mainly due to working capital movements and lower production. Production was 861,000oz at an average total cash cost of \$702/oz, compared to 969,000oz at \$734/oz in the first quarter of 2015, which included 41,000oz from the Cripple Creek & Victor (CC&V) mine, which was sold last year, and 17,000oz from the Obuasi mine, which has now ceased production. While production from South Africa remained relatively flat year-on-year at 236,000oz, production from the International operations was lower due to the a b o v e m e n t i o n e d C C & V s a l e a n d c e s s a t i o n o f s t o c k p i l e p r o d u c t i o n f r o m t h e O b u a s i m i n e , a s w e l l a s l o w e r - g r a d e p r o d u c t i o n f r o m t h e T r o p i c a n a m i n e . A t K i b a l i , c h a l l e n g e s w e r e e n c o u n t e r e d w h i l s t r a m p i n g u p b o t h s t r e a m s t o r u n o n s u l p h i d e s a s p e r t h e d e s i g n s p e c i f i c a t i o n , r e s u l t i n g i n a d r o p i n r e c o v e r i e s . T h i s w a s c o m p o u n d e d b y a b e a r i n g f a i l u r e o n o n e o f t h e b a l l m i l l s . C o s t s i m p r o v e d r e l a t i v e t o t h e f i r s t q u a r t e r o f l a s t y e a r , b e n e f i t t i n g f r o m c o n t i n u e d t r a c t i o n f r o m c o s t s a v i n g i n i t i a t i v e s a n d w e a k e r l o c a l c u r r e n c i e s , w h i c h h e l p e d o f f s e t i n c r e a s e s a t T r o p i c a n a a n d K i b a l i .

“We again generated significant free cash flow despite the lower gold price, which shows the continued success of our self-help measures to reduce debt by improving margins,” Srinivasan Venkatakrishnan, Chief Executive Officer of AngloGold Ashanti, said. “Notwithstanding our strong cost performance, we’re redoubling our efforts to ensure we continue to capture as much margin as possible.”

All-in sustaining costs (AISC) were \$860/oz, a 7% improvement year-on-year, which reflects, among other improvements, a 4% year-on-year reduction in total cash costs, 18% lower sustaining capital expenditure and a 38% reduction in corporate and marketing costs. All-in costs were 8% lower at \$924/oz. Total capital expenditure (including equity accounted entities and discontinued operations) during the first quarter was \$128m, compared with \$195m (including \$27m for CC&V) in the first quarter of 2015, and \$223m in the fourth quarter of 2015. Of the total capital spent, project capital expenditure during the quarter amounted to \$19m. Capital expenditure at continuing operations is expected to increase, particularly over the next two quarters, with slower-than-anticipated spending in South Africa in the first quarter of the year, principally due the Easter public holidays resulting in fewer working days. Adjusted earnings before interest, tax, depreciation and amortisation (Adjusted EBITDA) were \$378m, compared with \$402m in the first quarter of 2015, mainly due to lower earnings as a result of a 3% decline in the realised gold price from \$1,217/oz to \$1,185/oz and an 8% reduction in ounces sold over this period. Adjusted EBITDA for the previous quarter was \$388m. At the end of the first quarter of 2016, net debt was lower at \$2.127bn compared to \$2.190bn in the previous quarter and \$3.150bn for the same quarter a year ago mainly due to the generation of free cash flow, the proceeds from the sale of CC&V completed in August 2015, and the subsequent partial tender offer for the 8.5% high yield bonds due in 2020. This reduction in debt has resulted in a net debt to Adjusted EBITDA ratio of 1.47 times, compared with 2.02 times at the end of March 2015. Accordingly, debt levels remain well below the covenant of net debt to Adjusted EBITDA of 3.5 times under our revolving credit agreements. The outlook for the full year remains unchanged as follows:

- Production between 3.6Moz to 3.8Moz
- Total cash costs between \$680/oz and \$720/oz and
- All-in sustaining costs between \$900/oz and \$960/oz,

assuming average exchange rates against the US dollar of 15.00 (Rand), 4.00 (Brazil Real), 0.70 (Aus\$) and 14.90 (Argentina Peso), with oil at \$35/bl average for the year, based on market expectations. The impact of the Savuka section of Tau Tona seismic event on 29 April 2016, is still being evaluated and assessed.

Capital expenditure is anticipated to be between \$790m and \$850m. Corporate and marketing costs are estimated to be between \$75m and \$90m, and expensed exploration and study costs (including equity accounted investments) are estimated to be \$130m to \$150m. Depreciation and amortisation is forecast at \$820m and interest and finance costs are expected to be \$190m (income statement) and \$175m (cash flow statement).

March 2016 Market update - www.AngloGoldAshanti.com

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Safety update

Regrettably, there was a fatality at TauTona mine during the quarter. Section 54 safety stoppages, whereby the entire operation is shutdown to remediate safety concern, continued to be a source of disruption in South Africa. AngloGold Ashanti continues to engage with the regulator to find an outcome that will help make further improvements in safety in the

most sustainable and practical way possible.

Subsequent to the quarter end, on 29 April 2016, regrettably there were two fatalities at the Savuka section of Tau Tona

following a series of seismic events.

There were some notable safety successes, including both Mponeng and the Vaal River operations each reaching one-million shifts without a fatality, whilst our Continental Africa recorded not a single lost-time injury in the three months

through March. Both Continental Africa and the Americas recorded significant safety gains, with AIFR better by 72% and

36% respectively, compared with the end of last year.

The all-injury frequency rate was at 8.44 per million hours worked, compared with 7.66 in the same quarter last year.

Operating highlights

The **South Africa** region produced 236,000oz at a total cash cost of \$786/oz for the quarter ended March 2016 compared

to 239,000oz at a total cash cost of \$911/oz for the quarter ended March 2015. Production for the quarter was adversely

impacted by a slow start up post the Christmas holidays, the Easter long weekend which fell in March this year, and ongoing safety-related stoppages across all operations which continue to affect production. Mponeng showed a strong recovery, with production up by more than a third to 59,000oz, and all-in sustaining costs down 28% to \$930/oz.

Seismic activity and a fatality at the TauTona mine also had a negative impact on production during the quarter, resulting

in the need to modify secondary support standards of all development ends. The mine, however, has now resumed normal operations.

South Africa's total cash cost was down 14% compared to the same quarter last year, benefitting from the weaker exchange rate despite lower volumes, higher wages and power prices and re-instatement of Moab Khotsong employees

(who are part of the Association of Mining Construction Union (AMCU)) following the Labour Court ruling at the end of last

year.

The **Continental Africa** region produced 305,000oz at a total cash cost of \$719/oz for the quarter ended March 2016 compared to 351,000oz at a total cash cost of \$714/oz for the quarter ended March 2015. At Kibali, the plan to ramp up

treatment of harder sulphide ore saw challenges resulting in lower recovered grades and production. Morila's production

was 14,000oz lower in line with the mine plan. The Obuasi mine produced 16,000oz less year-on-year given the conclusion of production from stockpiled material. Despite lower production, the region saw strong cost management due

to ongoing initiatives targeted at maintaining or lowering direct operating costs and input costs, particularly fuel.

The **Americas** region produced 196,000oz at a total cash cost of \$516/oz for the quarter ended March 2016 compared to

195,000oz at a total cash cost of \$603/oz for the quarter ended March 2015. The region delivered a solid performance as

a result of a marginal increased contribution from Brazil while Argentina production remained stable.

Brazil's production increase was mainly driven by a 6% improvement in output from the Serra Grande mine compared to

the same quarter last year, due to both higher tonnage and feed grade from mining high grade blocks at Mina III and

Pequisão. At Mineração, Córrego do Sítio delivered stable performance from both the oxide and sulphide operations, while Cuiabá mine was affected due to delayed access to certain high grade stopes at Serrotinho L7, given geo-technical and ground support issues. These are being addressed and we expect to catch up and recover lost production in coming quarters.

Americas' total cash cost was down 14% compared to the same quarter last year driven by continued strong cost management and saving initiatives and the depreciation of the local currencies against the US dollar, despite unfavourable inventory movements and inflationary pressure. In Argentina, costs were also favourably impacted by export benefits (reimbursement from the Government for exports channeled through Patagonia ports) and higher by-product sold, partially offset by salary increases in February as agreed with the union, the union strike in January and higher heap leaching costs and higher amortisation from stripping assets.

In **Australia**, production was 124,000oz at a total cash cost of \$814/oz for the quarter ended March 2016 compared to 143,000oz at a total cash cost of \$679/oz for the quarter ended March 2015. Australia's total cash cost increased by 20%

compared to the same quarter last year mainly due to lower production as well as movements in stockpiles inventory. Tropicana's lower production during the quarter was due to a 21% decrease in the head grade, consistent with the mine plan and the mine's grade streaming strategy. Production was also impacted by mining schedule delays, which contributed to lower head grades from the Havana pit with some benches deferred to the second quarter. In addition, it is

expected that approximately 300,000t of stockpiled ore will be used in coming quarters to supplement the mill feed while

the waste stripping of the Tropicana Pit cutback is being carried out.

At Sunrise Dam, costs were favourably impacted by inventory movement and higher production, while at Tropicana stockpile inventory movements accounted for \$120/oz, consistent with the mine plan.

March 2016 Market update - www.AngloGoldAshanti.com

Operations at a glance

for the quarters ended 31 March 2016, 31 December 2015 and 31 March 2015

Mar 2016

Dec 2015

Mar 2015

Mar 2016

Dec 2015

Mar 2015

Mar 2016

Dec 2015

Mar 2015

Mar 2016

Dec 2015

Mar 2015

Mar 2016

Dec 2015

Mar 2015

Mar 2016

Dec 2015

Mar 2015

Mar 2016

Dec 2015

Mar 2015

SOUTH AFRICA

236

252

239

769

848

739

9,173

8,478

8,146

-

-

-

7.56

7.35

7.85

0.16

0.18

0.19

-

-

-

Vaal River Operations

90

87

94

360

422

384

-

-

-

-

-

-

7.76

6.41

7.57

-

-

-

-

-

-

Kopanang

22

28

29

133

175

168

-

-

-

-

-

-

5.22

4.95

5.44

-

-

-

-

-

-

Moab

68

59

64

227

247

217

-

-

-

-

-

-

9.25

7.45

9.22

-

-

-

-

-

-

West Wits Operations

97

113

93

385

415

344

-

-

-

-

-

-

7.82

8.51

8.41

-

-

-

-

-

-

Mponeng

59

61

44

243

239

151

-

-

-

-

-

-

7.47

8.03

9.07

-

-

-

-

-	
-	
TauTona	
38	
52	
49	
142	
176	
193	
-	
-	
-	
-	
-	
-	
8.43	
9.17	
7.89	
-	
-	
-	
-	
-	
-	
Total Surface Operations	
47	
49	
50	
-	
-	
-	
9,173	
8,478	
8,146	
-	
-	
-	
-	
-	
-	
0.16	
0.18	
0.19	
-	
-	
-	
First Uranium SA	
24	
23	
24	
-	

-
-
6,747
6,152
5,953
-
-
-
-
-
-
0.11
0.12
0.12
-
-
-
Surface Operations
23
26
27
-
-
-
2,427
2,326
2,193
-
-
-
-
-
0.29
0.34
0.38
-
-
-
Other
2
3
2
23
12
11
-
-
-
-
-

-
-
-
-
-
-
-
-
-
-
-

INTERNATIONAL OPERATIONS

625
745
688
1,536
1,626
1,398
-
130
237
8,199
8,692
7,732
3.53
3.91
4.12
-
1.89
1.53
1.65
1.85
1.92

CONTINENTAL AFRICA

305
366
351
-
-
-
-
130
237
6,471
6,978
5,974
-
-
-
-
1.89
1.53

1.46

1.60

1.74

DRC

Kibali - Attr. 45%

59

69

73

-

-

-

-

-

-

738

776

716

-

-

-

-

-

-

2.48

2.78

3.16

Ghana

Iduapriem

46

56

40

-

-

-

-

-

-

1,217

1,255

1,024

-

-

-

-

-

-

1.16

1.39

1.21

Obuasi

1

8

17

-

-

-

130

237

-

-

-

-

-

-

1.89

1.53

-

-

-

Guinea

Siguiri - Attr. 85%

62

71

64

-

-

-

-

-

-

2,460

2,657

2,328

-

-

-

-

-

-

0.78

0.83

0.85

Mali

Morila - Attr. 40%

6

7

20

-

-

-

-
-
-
308
327
287
-
-
-
-
-
-
0.65
0.66
2.21
Sadiola - Attr. 41%
19
16
19
-
-
-
-
-
482
561
471
-
-
-
-
-
1.23
0.88
1.25
Tanzania
Geita
113
139
118
-
-
-
-
-
1,267
1,403
1,147

-
-
-
-
-
2.76
3.09
3.20
Non-controlling interests,
exploration and other

AUSTRALASIA

124

144

143

638

672

519

-

-

-

1,525

1,468

1,526

1.71

1.70

2.56

-

-

-

1.82

2.28

2.03

Australia

Sunrise Dam

54

50

57

638

672

519

-

-

-

384

332

444

1.71

1.70

2.56

-

-
-
1.53
1.29
0.96
Tropicana - Attr. 70%
70
94
86
-
-
-
-
-
1,141
1,136
1,082
-
-
-
-
-
1.92
2.57
2.47
Exploration and other
AMERICAS
196
235
195
897
954
879
-
-
-
203
246
232
4.83
5.48
4.83
-
-
-
6.45
6.41
5.82
Argentina

Cerro Vanguardia - Attr. 92.50%

65

72

65

80

64

64

-

-

-

168

213

195

7.15

8.75

5.82

-

-

-

7.33

6.99

6.57

Brazil

AngloGold Ashanti Mineração

98

117

99

526

594

530

-

-

-

-

-

-

5.37

5.60

5.61

-

-

-

-

-

-

Serra Grande

33

46

31

291

296

285
-
-
-
35
32
38
3.20
4.51
3.16
-
-
-
2.24
2.56
1.88
Non-controlling interests,
exploration and other
Continuing operations
861
997
928
2,304
2,474
2,137
9,173
8,608
8,382
8,199
8,692
7,732
4.88
5.09
5.41
0.16
0.20
0.23
1.65
1.85
1.92
Discontinued operations
Cripple Creek & Victor
-
-
41
-
-
-
-
-
-

-
-
48
-
-
-
-
-
-
-
-

0.16

Total

861

997

969

2,304

2,474

2,137

9,173

8,608

8,382

8,199

8,692

7,780

4.88

5.09

5.41

0.16

0.20

0.23

1.65

1.85

1.92

Surface Recoverd grade

g/tonne

Open-pit Recoverd grade

g/tonne

Production

oz (000)

Underground milled / treated

000 tonnes

Surface milled / treated

000 tonnes

Open-pit treated

000 tonnes

Underground Recoverd grade

g/tonne

March 2016 Market update - www.AngloGoldAshanti.com

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Mar 2016

Dec 2015

Mar 2015

Mar 2016

Dec 2015

Mar 2015

Mar 2016

Dec 2015

Mar 2015

Mar 2016

Dec 2015

Mar 2015

Mar 2016

Dec 2015

Mar 2015

Mar 2016

Dec 2015

Mar 2015

SOUTH AFRICA

786

776

911

919

988

1,095

22

25

26

5

24

10

5

6

8

42

34

11

Vaal River Operations

786

777

868

925

1,041

1,062

9

11

11

1

7

3

-

-
1
15
9
8
Kopanang
1,205
908
1,055
1,387
1,142
1,266
3
3
4
-
2
1
-
-
-
(7)
(1)
(4)
Moab
647
714
782
772
993
969
6
8
7
1
5
2
-
-
1
21
10
11
West Wits Operations
813
759
977
984
958
1,202
13

14
15
2
7
3
5
6
7
15
16
(5)
Mponeng
726
722
1,000
930
959
1,307
9
10
10
2
4
2
5
6
7
13
9
(5)
TauTona
947
802
957
1,066
957
1,106
3
4
5
1
4
1
-
-
2
7
1
Total Surface Operations
730

815
868
750
893
945
-
-
-
1
5
3
-
-
-
13
9
7
First Uranium SA
609
728
852
643
754
1,000
-
-
-
1
2
2
-
-
-
6
4
(1)
Surface Operations
857
893
882
862
1,017
895
-
-
-
-
3
-
-
-

-
7
5
8
Other

-
-
-
-
-
-
-
-
-
-
1
3
1
-
-
-
-
-

INTERNATIONAL OPERATIONS

674
619
676
822
786
836
30
25
26
51
104
68
14
38
31
175
185
235

CONTINENTAL AFRICA

719
676
714
815
813
839
4
-

-
27
58
33
14
38
31
75
77
117
DRC
Kibali - Attr. 45%
774
603
630
830
669
623
4
-
-
1
1
-
9
34
28
4
5
25
Ghana
Iduapriem
992
897
1,046
981
972
1,182
-
-
-
-
6
5
-
-
6
2
-
Obuasi

443

1,607

628

715

684

966

-

-

-

-

1

-

4

5

5

(3)

4

7

Guinea

Siguiri - Attr. 85%

746

788

887

819

957

991

-

-

-

6

13

4

1

-

-

23

16

15

Mali

Morila - Attr. 40%

926

1,082

535

1,056

1,114

614

-

-

-

-

1

1
-
-
-
-
(2)
8
Sadiola - Attr. 41%
772
921
876
805
1,104
912
-
-
-
-
3
-
-
-
(2)
5
1
5
Tanzania
Geita
548
465
579
722
715
775
-
-
-
19
33
22
-
-
-
38
48
55
Non-controlling interests,
exploration and other
-
-
-

1

-

1

-

-

-

4

2

3

AUSTRALASIA

814

685

679

994

864

842

4

4

1

13

14

19

-

-

-

25

31

47

Australia

Sunrise Dam

840

969

970

985

1,103

1,095

4

4

1

3

3

4

-

-

-

12

2

6

Tropicana - Attr. 70%

728

512

422

900

693

584

-

-

-

11

11

15

-

-

-

19

33

48

Exploration and other

-

-

-

-

-

-

-

-

-

(5)

(4)

(7)

AMERICAS

516

490

603

723

684

820

22

22

24

11

32

16

-

-

-

75

77

71

Argentina

Cerro Vanguardia - Attr. 92.50%

509

589
651
650
778
916
5
6
6
-
10
9
-
-
30
19
23
Brazil
AngloGold Ashanti Mineração
485
432
548
702
647
716
11
12
12
7
15
6
-
-
-
36
47
42
Serra Grande
565
435
680
874
587
962
6
3
7
4
6
1
-

-
-
9
13
4
Non-controlling interests,
exploration and other
-
-
-
-
1
-
-
-
-
-
(1)
2
Continuing operations
702
663
734
860
860
920
52
50
52
57
128
78
19
44
38
Discontinued operations
Cripple Creek & Victor
-
-
-
-
-
3
-
-
24
OTHER
1
(3)
1
Total

52

50

52

57

128

81

19

44

62

218

216

247

Equity accounted investments included above

(8)

(4)

(38)

AngloGold Ashanti

210

212

209

Rounding of figures may result in computational discrepancies.

Adjusted gross profit (loss)

\$m

Total cash costs

\$/oz

All-in sustaining costs

\$/oz

ORD / Deferred stripping capex

\$m

Other sustaining capex

\$m

Non sustaining capex

\$m

March 2016 Market update - www.AngloGoldAshanti.com

5

**Development Sampling
for the quarter ended 31 March 2016**

Statistics are shown in metric units

**Advanced
metres**

**Sampled
Avg. ore body
(total)***

**metres
thickness (cm)**

Avg. g/t

Avg. cm.g/t

Avg. kg/t

Avg. cm.kg/t

SOUTHERN AFRICA

VAAL RIVER

Kopanang

Vaal reef

1,695

234

18.0

84.50

1,521

3.91

71

Moab Khotsong

Moab Khotsong Vaal reef

1,909

182

68.3

34.55

2,360

1.03

68

WEST WITS

Mponeng

Ventersdorp Contact reef

1,465

194

83.6

16.52

1,381

-

-

TauTona

TauTona Carbon Leader reef

622

34

140.6

9.64

1,355

-

-

AUSTRALASIA

Sunrise Dam

1,738

674

-

1.68

-

-

-

SOUTH AMERICA

AngloGold Ashanti Mineração

Mina de Cuiabá

1,257

1,517

0.6

7.15

-

-

-

Córrego do Sitio Mina I

649

73

60.0

5.67

-

-

-

Córrego do Sitio Mina II

2,039

729

-

5.50

-

-

-

Lamego

6

6

-

7.15

-

-

-

Serra Grande

Mina III

764

609

100.0

2.54

-
-
-
Mina Nova
1,054
1,036

-
3.05

-
-
-
CVSA

Cerro Vanguardia
549
545
400.0
8.35

-
-
-
Statistics are shown in imperial units

Advanced

feet

Sampled

Avg. ore body

(total)

feet

thickness (inches)

Avg. oz/t

Avg. ft.oz/t

Avg. lb/t

Avg. ft.lb/t

SOUTHERN AFRICA

VAAL RIVER

Kopanang

Vaal reef

5,560

768

7.09

2.46

1.46

7.82

4.62

Moab Khotsong

Moab Khotsong Vaal reef

6,262

597

26.89

1.01

2.26

2.06

4.62

WEST WITS

Mponeng

Ventersdorp Contact reef

4,805

636

32.91

0.48

1.32

-

-

TauTona

TauTona Carbon Leader reef

2,042

112

55.35

0.28

1.30

-

-

AUSTRALASIA

Sunrise Dam

5,702

2,211

-

0.05

-

-

-

SOUTH AMERICA

AngloGold Ashanti Mineração

Mina de Cuiabá

4,123

4,976

0.24

0.21

-

-

-

Córrego do Sitio Mina I

2,129

240

23.62

0.17

-

-

-

Córrego do Sitio Mina II

6,690

2,392

-

0.16

-

-

-

Lamego

21

21

-

0.21

-

-

-

Serra Grande

Mina III

2,507

1,998

39.37

0.07

-

-

-

Mina Nova

3,458

3,398

-

0.09

-

-

-

CVSA

Cerro Vanguardia

1,801

1,788

157.48

0.24

-

-

-

* This includes total "on-reef" and "off-reef" development metres

gold

uranium

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

Sampled

gold

uranium

Sampled

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**Administrative
information**

**A
NGLO
G
OLD
A
SHANTI
L
IMITED**

Registration No. 1944/017354/06
Incorporated in the Republic of South Africa

Share codes:

ISIN:
ZAE000043485
JSE: ANG
NYSE: AU
ASX: AGG
GhSE: (Shares)
AGA
GhSE: (GhDS)
AAD

JSE Sponsor:

Deutsche Securities (SA) Proprietary Ltd

Auditors: Ernst & Young Inc.

Offices

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Accra
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(As AngloGold Ashanti delisted from the London

Stock Exchange on 22 September 2014, this information is provided for administration purposes only.)

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Fax: +44 20 7796 8645
E-mail:
jane.kirton@corpserv.co.uk

Directors

Executive

S Venkatakrishnan*

§

(Chief Executive Officer)

KC Ramon

^

(Chief Financial Officer)

Non-Executive

SM Pityana

^

(Chairman)

Prof LW Nkuhlu

^

(Lead Independent Director)

A Garner

#

R Gasant

^

DL Hodgson

^

NP January-Bardill

^

MJ Kirkwood*

M Richter

#

RJ Ruston~

* *British*

§

Indian

#

American

~ *Australian*

^

South African

Officers

Executive Vice President – Legal, Commercial and
Governance and Company Secretary:

ME Sanz Perez

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Company secretarial e-mail

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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.

PUBLISHED BY ANGLOGOLD ASHANTI

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+1 201 680 6578 (outside USA)
E-mail: shrrelations@mellon.com
Website: www.bnymellon.com.com\shareowner

Global BuyDIRECT

SM

BoNY maintains a direct share purchase and
dividend reinvestment plan for A

NGLO

G

OLD

A

SHANTI

Telephone: +1-888-BNY-ADRS

United Kingdom

*(As AngloGold Ashanti delisted from the
London Stock Exchange on 22 September
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March 2016 Market update - www.AngloGoldAshanti.com

SIGNATURES

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

AngloGold Ashanti Limited

Date: June 13, 2016

By:

/s/ M E SANZ PEREZ _____

Name:

M E Sanz Perez

Title:

EVP: Group Legal, Commercial & Governance