

HARMONY GOLD MINING CO LTD

Form 6-K

August 29, 2012

UNITED STATES

SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

Form 6-K

REPORT OF FOREIGN PRIVATE ISSUER PURSUANT TO

RULE 13a-16 OR 15d-16 UNDER THE SECURITIES

EXCHANGE ACT OF 1934

For 29 August 2012

Harmony Gold Mining Company

Limited

Randfontein Office Park

Corner Main Reef Road and Ward Avenue

Randfontein, 1759

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 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

1

**Issued by Harmony Gold
Mining Company Limited**

29 August 2012

**For more details contact:
Graham Briggs
Chief Executive Officer**

+27 (0) 83 265 0274 (mobile)

**Jaco Boshoff
Executive: Minerals and
Growth**

+27 (0) 83 395 3810 (mobile)

**Greg Job
Harmony Gold (PNG Services)
Pty Ltd: Executive - Growth &
Resource Development**

+61 417 172 387 (mobile)

**Marian van der Walt
Executive: Corporate and
Investor Relations**

+27 (0) 82 888 1242 (mobile)

**Corporate Office:
Randfontein Office Park
P O Box 2
Randfontein
South Africa 1760
T +27 (11) 411 2000
www.harmony.co.za**

JSE: HAR
NYSE: HMY
ISIN No.: ZAE000015228

Registration number:

1950/038232/06

Golpu gold equivalent reserve ounces significantly enhances value of Harmony's asset portfolio

Harmony's gold equivalent reserves increases 31% year on year to 52.9 Million ounces.

Golpu* reserve of 450 million tonnes at 1.21% copper and 0.86 g/t gold for 12.4 Moz gold and 5.4 Million tonnes copper declared.

Johannesburg, Wednesday, 29 August 2012. Harmony Gold Mining Company Limited ('Harmony' or 'the Company') is pleased to publish its Statement of Mineral Resources and Mineral Reserves as at 30 June 2012, produced in accordance with the South African Code for the Reporting of Mineral Resources and Mineral Reserves (SAMREC Code) and the Australian Code (JORC Code). The Measured and Indicated Mineral Resources are inclusive of those Mineral Resources modified to produce the Mineral Reserves.

Graham Briggs, chief executive officer commented, "Papua New Guinea (PNG) has become one of the world's premier new gold regions. As part of Harmony's strategy to diversify internationally, we have increased our exploration expenditure significantly over the last 3 years. It is thus pleasing to see this investment has significantly enhanced the value proposition of the Company. Gold equivalent reserve ounces in PNG now represent 42% of Harmony's total reserves in comparison to 11% as at 30 June 2011."

Briggs added, "In South Africa our world-class mines in build-up represent 32% of our total gold equivalent mineral reserves. These mines, together with Wafi-Golpu in PNG, are the solid foundation on which Harmony will in the long-term increase gold production, reserves and profits."

As at 30 June 2012, Harmony's attributable gold equivalent Mineral Reserves in South Africa and PNG amount to 52.9 million ounces (Moz), which represents a 31% annual increase in declared reserves. The increase is largely due to the increase in mineral reserves in PNG following the completion of the pre-feasibility study at Golpu*. As drilling at Golpu continues, more ounces from PNG may be added to Harmony's Reserves.

*Jointly held by Harmony and Newcrest Mining Limited in a 50/50 joint venture

2

Figure 1. Geographical distribution of the Mineral Reserves

** 30 June 2011 Gold equivalent based on US\$1150/oz Au, US\$2.50/lb Cu and US\$13.50/oz Ag at 100% recovery for all metals*

30 June 2012 Gold equivalent based on US\$1400/oz Au, US\$3.50/lb Cu and US\$25.00/oz Ag at 100% recovery for all metals

As at 30 June 2012 attributable gold equivalent Mineral Resources are 150.2 Moz, an 8% decrease year on year. The decrease is largely due to not including the resources from the Evander assets being held for sale. Harmony's PNG Gold Equivalent Resources at 41.2 Moz now represent 27% of Harmony's total Resources (Figure 2).

3

Figure 2. Geographical distribution of the Mineral Resources

** 30 June 2011 Gold equivalent based on US\$1150/oz Au, US\$2.50/lb Cu and US\$13.50/oz Ag at 100% recovery for all metals*

30 June 2012 Gold equivalent based on US\$1400/oz Au, US\$3.50/lb Cu and US\$25.00/oz Ag at 100% recovery for all metals

The Golpu pre-feasibility study Reserve and Resource statement validates management's long held belief that Golpu is truly a world-class discovery and a company-changer for Harmony. On a 100% basis, Golpu alone now hosts a high grade, quality reserve of 450Mt, containing 12.4Moz of gold and 5.4 million tonnes (Mt) of copper (38.9Moz on a gold equivalent

1

basis).

4

Table 1. Golpu Mineral Resources on a 100% basis

*1. Gold equivalent ounces are
calculated assuming a US\$1400/oz
Au, US\$3.50/lb Cu and
US\$25.00/oz Ag with 100%
recovery for all metals*

Table 1 above depicts the resource changes at Golpu on a 100% basis during the previous three years. It is worth noting that recent high grade intercepts from continued drilling on the ore body will further expand the resource in future resource declarations (Figure 3), as the later results were not included in the pre-feasibility study.

Whilst the Golpu Resource is the largest, it is not the only mineralised body within the Wafi-Golpu complex. A 2.5km square around the diatreme (shown below in Figure 3) contains the Wafi and Nambonga Resources and significant other mineralisation yet to be fully tested. Golpu has understandably been the focus of our drilling this year, but other mineralisation continues to be found. For example, the Northern Zone recently returned a significant intercept of 157m @ 1.0g/t Au when a drill hole targeting the northern extension of Golpu passed through this area. Golpu itself remains open at depth and to the north east.

Grade**Contained Metal****Gold****Equivalent****M tonnes****Au g/t****Cu %****Au Moz****Cu Mt****Moz**

2010

501

0.54

0.96

8.8

4.8

32

2011

869

0.69

1.03

19.3

8.9

62

2012

1 000

0.63

0.90

20.3

9.0

65

1

5

Figure 3. The 2.5km square around the Wafi Golpu diatreme host the Golpu, Wafi and Nambonga Resource and other significant mineralisation yet to be fully tested.

¹Figures quoted on 100%basis

Regionally, the Wafi Transfer structure is dominated by copper and gold geochemical anomalies which are being systematically tested by the exploration department. Many of these anomalies fall within 10km of Golpu and there is significant potential to increase the Resources in the Wafi Golpu region.

6

Figure 4. Regional geology showing the Wafi Transfer Zone

Table 2. Golpu Mineral Reserve on a 100% basis

Grade

Contained Metal

Gold

Equivalent

M tonnes

Au g/t

Cu %

Au Moz

Cu Mt

Moz

2010

71

0.61

1.13

1.4

1.8

10

2011

71

0.61

1.13

1.4

1.8

10

2012

450

0.86

1.21

12.4

5.4

38.9

1

1. Gold equivalent ounces are calculated assuming a US\$1400/oz Au, US\$3.50/lb Cu and US\$25.00/oz Ag with 100% recovery for all metals

Table 2 shows the year on year changes in the Golpu Reserve. The 2012 Golpu Reserve extracts ore from a two lift block cave. Declines will be used for primary ore haulage and shafts will be used for early access, ventilation and emergency egress. Processing will be via a conventional copper floatation plant with a copper gold concentrate transported 70km to the Port of Lae for shipping to market.

7

The entirety of the Resource is not mined in the pre-feasibility study and therefore potential Reserve upside exist with a third lift to be mined (Figure 5). Recent drilling also suggests that the Lift 1 ore body may extend to the north and, importantly, closer to surface. The Resource is open at depth and to the north east. The 8 rig drill programme is continuing and an additional drill fleet is being considered to expedite ore body growth and definition.

Figure 5. Golpu ore body and associated mining lifts from the pre-feasibility study

More information on the results of the Golpu pre-feasibility study will be shared at Harmony's Investor Day held on 29 August 2012.

Please refer to Annexure A, included in this press release, which provides all the underlying detail to the information provided.

8

ANNEXURE A

In converting the Mineral Resources to Mineral Reserves the following parameters were applied:

- a gold price of US\$1 400/oz
- an exchange rate of USD/ZAR 7.55
- the above parameters resulted in a gold price of R340 000/kg
- the Hidden Valley mine and Wafi-Golpu project in the Morobe Mining Joint Venture used prices of US\$1 250/oz Au, US\$21/oz Ag, US\$15/lb Mo and AUD3.10/lb Cu at an exchange rate of US/AUD 0.90
- Gold equivalent ounces are calculated assuming a US\$1400/oz Au, US\$3.50/lb Cu and US\$25.00/oz Ag with 100% recovery for all metals

Harmony's South African Resources to Reserves conversion process and three operations, Doornkop mine, Joel mine and Kalgold mine, were reviewed and audited by SRK Consulting Engineers and Scientists for compliance with the South African Code for Reporting Mineral Resources and Mineral Reserves – SAMREC Code (2008), Industry Guide 7 of the United States Securities Exchange Commission and Sarbanes-Oxley requirements. Harmony's Papua New Guinea Mineral Resources and Mineral Reserves have been independently reviewed by AMC Consultants Pty Ltd for compliance with the standards set out in the Australasian Code for Reporting of Exploration Results, Mineral Resources and Ore Reserves – The JORC Code.

The company's detailed Resource and Reserve declaration will be published in the FY2012 annual report, which will be made available to shareholders towards the end of September 2012. The annual report will also include the latest update on Harmony's uranium Resources.

We use certain terms in this document such as 'Measured', 'Indicated' and 'Inferred' Resources, which the United States' Securities and Exchange Commission (SEC) guidelines strictly prohibit US-registered companies from including in their filings with the SEC. US investors are urged to closely consider the disclosure in our Form 20-F.

MINERAL RESOURCES STATEMENT

The following tables summarise the Mineral Resources for the South African and Papua New Guinea operations and projects:

SA underground operations**Tonnes (Mt)****g/t****Gold ('000 Kg)****Gold ('000 Oz)****Measured**

89.6 8.51

762

24

499

Indicated

104.9 8.07

846

27

201

Inferred

209.4
 7.01
 1 467
 47 176
Total
 403.9
 7.61
 3 075
 98 876

SA surface operations

Tonnes (Mt)	
g/t	
Gold ('000 Kg)	
Gold ('000 Oz)	
Measured	
366.6	0.28
102	
3	
273	
Indicated	
685.3	0.27
182	
5	
847	
Inferred	
62.1	0.48
30	967
Total	
1 114.0	
0.28	
314	
10 087	

9

South Africa Total

Tonnes (Mt)

Gold ('000 Kg)

Gold ('000 Oz)

Measured

456.2 864

27

772

Indicated

790.1

1 028

33 048

Inferred

271.6

1 497

48 143

Total

1 517.9

3 389

108 963

10

Papua New Guinea

Hidden Valley mine

Tonnes (Mt) ***g/t****Gold ('000 Kg) *****Gold ('000 Oz) *****Equity****Gold****('000 Oz) ******Measured**

1.5

1.20

2

58

29

Indicated

146.6

1.32

194

6 238

3 119

Inferred

11.1

1.08

12

386

193

Total

159.2

1.31

208

6 682

3 341

Wafi-Golpu system

Tonnes (Mt) ***g/t****Gold ('000 Kg) *****Gold ('000 Oz) *****Equity Gold****('000 Oz) ******Measured**

-

-

-

-

-

Indicated

920.0

0.77

705

22 678

11 339

Inferred

252.0

0.70

177

5 662

2 831

Total

1 172.0

0.75

882

28 340

14 170

*

Represents Harmony / Newcrest joint venture 100% portion

** Represents Harmony's 50% portion

Equivalent gold ounces

Hidden Valley mine

Equivalent Gold ('000 Oz) *

Equity equivalent gold

('000 Oz) **

Measured

76

38

Indicated

8 192

4 096

Inferred

512

256

Total

8 780

4 390

Wafi-Golpu system

Equivalent Gold ('000 Oz) *

Equity equivalent gold

('000 Oz) **

Measured

-

-

Indicated

59 768

29 884

Inferred

13 878

6 939

Total

73 646

36 823

*

Represents Harmony / Newcrest joint venture 100% portion – gold, silver and copper

** Represents Harmony's 50% portion – gold, silver and copper

In addition to the gold Resources, Harmony also reports on silver, copper and molybdenum from its PNG operations.

Silver

Tonnes (Mt) *

g/t

Ag ('000 Kg) *

Ag ('000 Oz) *

Equity Silver

('000 Oz) **

Measured

1.5

19.2

28

900

450

Indicated

950.5

4.5

4 295

138 086

69 043

Inferred

240.1

2.2

519

16 678

8 339

Total

1192.1

4.1

4 842

155 664

77 832

11

Copper

Tonnes (Mt) *

%

Cu ('000 t) *

Cu (M lbs) *

Equity Copper

(M lbs) **

Measured

-

-

-

-

-

Indicated

810.0

0.92

7 452

16 429

8 215

Inferred

230.0

0.70

1 604

3 536

1 768

Total

1 040.0

0.87

9 056

19 965

9 983

Molybdenum

Tonnes (Mt) *

ppm

Mo ('000 t) *

Mo (M lbs) *

Equity

Molybdenum

(M lbs) **

Measured

-

-

-

-

-

Indicated

810.0

100

81

179

90

Inferred

190.0

75

14

31

15

Total

1 000.0

95

95

210

105

*

Represents Harmony / Newcrest joint venture 100% portion

** Represents Harmony's 50% portion

Papua New Guinea including gold equivalents**

Tonnes (Mt)

Gold ('000 Kg)

Gold ('000 Oz)

Measured

0.7 1

38

Indicated

533.3

1 057

33 980

Inferred

131.6 224

7

195

Total

665.6

1 282

41 213

** Represents Harmony's 50% portion

Harmony Group including gold equivalents**

Tonnes (Mt)

Gold ('000 Kg)

Gold ('000 Oz)

Measured

457.0 865

27

810

Indicated

1 323.4

2 085

67 028

Inferred

403.1

1 721

55 338

Total

2 183.5

4 671

150 176

** Represents SA Total and Harmony's 50% portion from PNG

12

MINERAL RESERVE STATEMENT

The following table shows more detail of the year-on-year Reserves reconciliation:

Mineral Reserves reconciliation: FY2011 to FY2012**Gold (tonnes)****Gold (million Oz)****Balance at June 2011****1 294****41.6****Reductions**

Evander held for sale

(249)

(8.0)

Mined during FY2012

(47)

(1.5)

Increases

Geology and Scope changes SA

40

1.3

PNG gold and gold equivalents

607

19.5

Balance at June 2012**1 645****52.9**

13

The following tables show the Mineral Reserves for the South African and Papua New Guinea operations and projects:

SA underground operations

Tonnes (Mt)	
g/t	
Gold ('000 Kg)	
Gold ('000 Oz)	
Proved	
56.5	
5.85	
331	
10 627	
Probable	
63.3	6.21
393	
12	
635	
Total	
119.8	6.04
724	
23	
262	

SA surface operations

Tonnes (Mt)	
g/t	
Gold ('000 Kg)	
Gold ('000 Oz)	
Proved	
366.6	0.28
102	
3	
273	
Probable	
523.8	0.26
136	
4	
389	
Total	
890.4	0.27
238	
7	
662	

14

South Africa Total**Tonnes (Mt)****Gold ('000 Kg)****Gold ('000 Oz)****Proved**

423.1 432

13

900

Probable

587.1 530

17

024

Total

1 010.2

962

30 924

Papua New Guinea*

Hidden Valley mine

Tonnes (Mt) ***g/t****Gold ('000 Kg) *****Gold ('000 Oz) *****Equity Gold ******('000 Oz)****Proved**

1.5

1.20

2

58

29

Probable

77.4

1.52

118

3 794

1 897

Total

78.9

1.52

120

3 852

1 926

Wafi-Golpu System

Tonnes (Mt) *

g/t

Gold ('000 Kg) *

Gold ('000 Oz) *

Equity Gold

('000 Oz) **

Proved

-

-

-

-

-

Probable

450.0

0.86

387

12 442

6 221

Total

450.0

0.86

387

12 442

6 221

*

Represents Harmony / Newcrest joint venture 100% portion

** Represents Harmony's 50% portion

Equivalent gold ounces

Hidden Valley mine

Equivalent Gold ('000 Oz) *

Equity equivalent gold

('000 Oz) **

Proved

74

37

Probable

4 962

2 481

Total

5 036

2 518

Golpu

Equivalent Gold ('000 Oz) *

Equity equivalent gold

('000 Oz) **

Proved

-

-

Probable

38 991

19 496

Total

38 991

19 496

*

Represents Harmony / Newcrest joint venture 100% portion – gold, silver and copper

** Represents Harmony's 50% portion – gold, silver and copper

In addition to the gold Reserves, Harmony also reports on silver, copper and molybdenum from its PNG operations.

Silver

Tonnes (Mt) *

g/t

Ag ('000 Kg) *

Ag ('000 Oz) *

Equity Silver

('000 Oz) **

Proved

1.5

19.5

28

916

458

Probable

72.8

27.9

2 032

65 308

32 654

Total

74.3

27.7

2 060

66 224

33 112

15

Copper

Tonnes (Mt) *

%

Cu ('000 t) *

Cu (M lbs) *

Equity Copper

(M lbs) **

Proved

-

-

-

-

-

Probable

450.0

1.21

5 446

12 006

6 003

Total

450.0

1.21

5 446

12 006

6 003

Papua New Guinea including gold equivalents**

Tonnes (Mt)

Gold ('000 Kg)

Gold ('000 Oz)

Proved

0.8 1

38

Probable

263.7 684

21

976

Total

264.5 685

22

014

** Represents Harmony's 50% portion

Harmony Group including gold equivalents **

Tonnes (Mt)

Gold ('000 Kg)

Gold ('000 Oz)

Proved

423.9 433

13

937

Probable

850.8

1 213

39 000

Total

1 274.7

1 646

52 937

*** Represents SA Total and Harmony's 50% portion from PNG*

The Mineral Resources and Mineral Reserves in the press release and the summary tables are based on information compiled by the following competent persons:

Reserves and Resources South Africa:

Jaco Boshoff, Pri.Sci.Nat who has 17 years relevant experience is registered with the South African Council for Natural Scientific Professions and a member of the South African Institute of Mining and Metallurgy.

Reserves and Resources PNG:

James Francis for the Wafi Golpu Mineral Resources, German Flores for the Golpu Mineral Reserve, Greg Job for the Hidden Valley Mineral Resources and Anton Kruger for the Hidden Valley Mineral Reserve. Messrs Job, Francis, Flores and Kruger are corporate members of the Australian Institute of Mining and Metallurgy and all have relevant experience in the type and style of mineralisation for which they are reporting, and are 'Competent Persons' as defined by the code.

These competent persons consent to the inclusion in the report of the matters based on the information in the form and context in which it appears. Mr Boshoff and Mr Job are full-time employees of Harmony Gold Mining Company Limited and Messrs Francis, Flores and Kruger are full-time employees of Newcrest Mining Limited. Newcrest is Harmony's joint venture partner in the Morobe Mining Joint Venture in respect of the Hidden Valley mine and Wafi-Golpu project.

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.

Dated: August 29, 2012

Harmony Gold Mining Company Limited

By:

/s/ Frank Abbott

Name: Frank Abbott

Title: Financial Director