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## OPERATING GOLD MINES AND RECOVERY PLANTS IN THE REPUBLIC OF SOUTH AFRICA 2015

#### DIRECTORATE: MINERAL ECONOMICS





# mineral resources

Department: Mineral Resources REPUBLIC OF SOUTH AFRICA

## OPERATING GOLD MINES AND RECOVERY PLANTS IN THE REPUBLIC OF SOUTH AFRICA 2015

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Cover Picture: A Gold Recovery Operation in the Free State Source: fluor.com

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#### ABBREVIATIONS AND SYMBOLS

| 1. <b>Au</b>   | Gold  |
|--|---|
| 2. <b>BEE</b>  | Black Economic Empowerment Partner  |
| 3. <b>Circa</b>  | Approximately/during the time-frame   |
| 4. <b>DMR</b>  | Department of Mineral Resources   |
| 5. <b>DRDSA</b>  | DRDGold South Africa (BEE partner)  |
| 6. <b>ERGO</b>   | East Rand Gold Operations   |
| 7. <b>FSO</b>  | Free State Operations   |
| 8. <b>FY</b>   | Financial Year  |
| 9. <b>g/t</b>  | grams per ton   |
| 10. <b>JV</b>  | Joint venture   |
| 11. <b>kt</b>  | Kiloton of gold   |
| 12. <b>kt/pm</b>   | kilotons per month  |
| 13. <b>LOM</b>   | Life of mine  |
| 14. <b>m</b>   | meter   |
| 15. <b>Moz</b>   | million ounces  |
| 16. <b>Mt</b>  | million tons  |
| 17. <b>n/a</b>   | information not available   |
|  |   |
| 18. <b>pa</b>  | per annum   |
| 18. <b>pa</b><br>19. <b>&gt;</b>   | per annum<br>Larger than  |
| •  | •   |
| 19. >  | Larger than   |
| 19. <b>&gt;</b><br>20. <b>&lt;</b>                                       | Larger than<br>Smaller than   |
| 19. ><br>20. <<br>21. <b>U<sub>3</sub>0</b> 8                            | Larger than<br>Smaller than<br>Uranium Oxide  |
| 19. ><br>20. <<br>21. U <sub>3</sub> 0 <sub>8</sub><br>22. VRO           | Larger than<br>Smaller than<br>Uranium Oxide<br>Vaal River Operations               |
| 19. ><br>20. <<br>21. U <sub>3</sub> 0 <sub>8</sub><br>22. VRO<br>23. VR | Larger than<br>Smaller than<br>Uranium Oxide<br>Vaal River Operations<br>Vaal River |

#### THE OCCURRENCE, DISCOVERY AND PRODUCTION OF GOLD (Au) IN SOUTH AFRICA

By far the most important occurrences of gold in South Africa (SA) are found within conglomerates in the upper division of the Witwatersrand Supergroup and the basal formation of the overlying Ventersdorp Supergroup. The vast majority of current mining operations are concentrated on gold-bearing rocks of these Supergroups. The Witwatersrand rocks were deposited over a time span of some 190 million years, commencing about 2 900 million years ago. Currently, seven gold fields are being exploited within the Witwatersrand Basin. They are preserved in structural depressions and downwards in the Witwatersrand Basin and consist of fans or fan deltas deposited by fluvial systems that accumulated erosional debris from an uplifted north-western edge, before debouching into an inland sea or lake. Relatively smaller gold deposits occur within greenstones of Archaean age (older than 2 500 million years), especially in the Barberton Mountain Land and the Murchison Range. Gold is also found in the Transvaal Supergroup (2 000 to 2 600 million years old), notably in the Black Reef Formation and the Chuniespoort Group. Occurrences are also known in the Cape (300 to 500 million years old) and Karoo (200 to 250 million years old) Supergroups.

The first recorded discovery of gold in South Africa during the modern era occurred on the farm Eersteling, near Polokwane in the Limpopo Province during 1871. This was closely followed by findings in Mpumalanga Province at Pilgrims Rest (1872), Kaapse Hoop (1874) and Barberton (1882). The discovery of gold in conglomerates on the farm Langlaagte on the Witwatersrand in 1886, led to the exploitation of the largest gold deposits the world has known to date. The mining on extensions of these conglomerates, particularly those belonging to the Main Reef zone spread rapidly in the Central Rand, West Rand and East Rand gold fields. Discoveries of even more fabulous reefs were made further afield within the Witwatersrand Basin, resulting in the opening up of the West Wits, Klerksdorp, Free State and Evander gold fields.

In 2014, gold was recovered from 52 operations, with the industry employing approximately 131 591 people. The metal was recovered mainly from mines exploiting reefs in the Witwatersrand Basin, secondary production (scrap) and from Platinum Group Metals (PGM) and uranium base metal mines as a by-product. Scrap-recovery operations, such as Goldplats reclaim gold from mine waste and play an integral part in the gold value chain. After smelting, which takes place on the larger individual mines, bullion bars containing about 85 percent gold, 9 percent silver and 4 to 5 percent base metals, are taken to the Rand Refinery (RR) near Johannesburg and processed to either 99.5 or 99.9 percent to meet specialized demands from certain industries. The RR then sells the refined gold to its customers on behalf of the gold-producing companies. The refiner has as its customer base the major accredited international bullion banks and acts as the sales agent for the gold producers.

The directory aims to provide a comprehensive list and profile of operating gold mines and recovery plants in SA. Mining profiles include location, ownership, production, lifetime of mine (where applicable) and employment data for 2014. For ease of reference, both AngloGold Ashanti and Harmony's regional operations have been separated by individual operations in parenthesis. In some instances, regional production and employment data is stated, as jointly reported by the respective regions to the DMR as well

as stated on annual reports. PGM's mines that produce gold as a by-product can be referred to in the Platinum Group Metal Mines in South Africa (D6).

#### 1. OPERATING GOLD MINES AND RECOVERY PLANTS IN SOUTH AFRICA

| Controlling Company  | Mine and Location                           | Ownership                                 | Mining<br>Method   | Reserves                                    | Output and Labour                         | Prospects  | Contact Details   |
|--|---|---|--|---|---|--|---|
| Afrika Gold<br>Firsts str. 15<br>Austria<br>Tel: 0041(0)44-786 86 61<br>Fax: 0041(0)44-786 86 87<br>IR@afrika-gold.ch                        | Lancaster mine.<br>Gauteng province.        | Afrika Gold 100 %.                        | Above-ground<br>mining and<br>underground<br>operations.<br>Exploitation of<br>the Boulder reef<br>and Kimberly<br>reef. | Total Reserves:<br>~n/a<br>LOM: > 10 years. | 391 Au oz/annum.<br>58 Employees.         | Commencing<br>with<br>underground<br>mining.<br>Roughly<br>300 000 oz. of<br>Au above<br>ground.<br>Roughly<br>1 000 000 oz.<br>of Au below<br>Boulder reef. | Dr. E Stettler<br>(Manager)<br>Tel: 018 823 0871            |
| AngloGold Ashanti<br>76 Jeppe Street<br>Newton<br>Johannesburg<br>2001<br>Tel: 011 637 6000<br>Fax: 011 637 6677<br>www.anglogoldashanti.com | Great Noligwa mine.<br>Free State province. | AngloGold Ashanti 94.0<br>%, Izingwe 6 %. | Underground<br>Mining on the<br>Crystalkop and<br>Vaal reefs.  | Total Reserves:<br>~1.8 Mt.<br>LOM: n/a.    | 646 050 Au oz/annum.<br>13 788 Employees. | ATIC project is<br>focusing on<br>improving the<br>mining<br>method on 64-<br>level.   | Salomi Snyder<br>(General Manager)<br>Tel: 018 478 8072     |
|  | Kopanang                                    |   |  | Total<br>Reserves:~6.78<br>Mt.<br>LOM: n/a  | 646 050 Au oz/annum<br>13 788 Employees   | VR block of<br>ground was<br>identified on<br>42-level.<br>Project<br>implimetnatio<br>n ot ATIC<br>project during<br>2015.                                  | Drienie La Grange<br>(General Manager)<br>Tel: 018 478 8977 |

| Controlling Company  | Mine and Location                           | Ownership                                 | Mining<br>Method  | Reserves                                       | Output and Labour                         | Prospects  | Contact Details   |
|--|---|---|---|--|---|--|---|
| AngloGold Ashanti<br>76 Jeppe Street<br>Newton<br>Johannesburg<br>2001<br>Tel: 011 637 6000<br>Fax: 011 637 6677<br>www.anglogoldashanti.com | Moab Khotsong mine.<br>Free State province. | AngloGold Ashanti 94.0 %,<br>Izingwe 6 %. | Scattered<br>underground<br>mining on the<br>Vaal reef.                 | Total Reserves:<br>~19.04 Mt<br>LOM: to 2040.  | 646 050 Au oz/annum.<br>13 788 Employees. | Level 1 business<br>plan is expected<br>to produce 2.0<br>Moz. of gold,<br>annually.<br>Zaaiplaats will<br>provide an<br>additional 5.2<br>Moz of gold.<br>Implementation<br>of ATIC project<br>during FY2015. | Denise Mccauley<br>(General Manager)<br>Tel: 018 478 1905   |
|  | Mponeng mine.<br>Gauteng province.          |   | Underground<br>mining on the<br>Ventersdorp<br>contact reef             | Total Reserves:<br>~45.42 Mt.<br>LOM: To 2032. | 646 640 Au oz/annum.<br>11 772 Employees. | Ongoing<br>deepening<br>projects are<br>well underway.<br>Implementation<br>of ATIC project<br>during FY2015.  | Neil Terblanche<br>(Financial Manager)<br>Tel: 018 737 6000 |
|  | Tau Tona mine.<br>Gauteng province.         |   | Underground<br>mining on<br>carbon leader<br>and Savuka<br>carbon reefs | Total Reserves:<br>~4.76 Mt.<br>LOM: n/a.      | 646 640 Au oz/annum.<br>11 772 Employees. | A link between<br>the Tau Tone<br>and Savuka is<br>currently being<br>utilised to<br>access the<br>remaining ore<br>at Savuka.<br>Implementation<br>of ATIC project<br>during FY2015.                          | Rene Foster<br>(General Manager)<br>Tel: 018 737 500        |

| Controlling Company   | Mine and Location                         | Ownership  | Mining<br>Method  | Reserves                                       | Output and Labour                         | Prospects   | Contact Details   |
|---|---|--|---|--|---|---|---|
| DRDGold<br>Constantia Kloof Ext. 28<br>Quadrum Office Park<br>1st Floor<br>Building 1<br>50 Constantia Boulevard<br>1709<br>Tel: 011 246 6600<br>Fax: 011 674 1476<br>www.drdgold.co.za | ERGO operations.<br>Gauteng province.     | DRDGold 74 %<br>through Khumo Gold<br>Empowerment Trust. | Tailings<br>reprocessing plants.                                      | Total Reserves:<br>~135.3 Mt.<br>LOM: 2021.    | 132 911 Au oz/annum.<br>2 329 Employees.  | Fine Flotation<br>Circuit System<br>is currently<br>operational,<br>despite<br>challenges<br>throughout FY<br>2013 and FY<br>2014.<br>Implementati<br>on of ATIC<br>project during<br>FY2015. | James Duncan<br>(Investor Relations)<br>Tel: 011 880 3924 |
| Galaxy Gold Reefs<br>Agnes Gold Mine<br>Van Oorschot 692 JC<br>Mpumelanga<br>1300<br>Tel: 021 590 3600<br>Fax: n/a.<br>dwaine@agnesgold.com   | Galaxy Gold mine.<br>Mpumalanga province. | Galaxy Gold 100 %.                                       | Underground<br>mining of the<br>Barberton and<br>Greenstone belts.    | Total Reserves:<br>~135.3 Mt.<br>LOM: n/a.     | 5 742 Au oz/annum.<br>313 Employees.      | Galaxy gold<br>was put on<br>care and<br>maintenance<br>in FY 2014<br>due to the<br>low gold<br>price.  | Dwayne Koch<br>(General Manager)<br>Tel: 013 712 4070     |
| Goldfields<br>150 Helen Road<br>Sandown<br>Sandton<br>South Africa<br>2196<br>Tel: +27 11 562 9700<br>Fax: +27 11 562 9838<br>www.goldfields.co.za                                      | South Deep mine.<br>Gauteng province.     | Gold Fields 90 %,<br>BEE 10 % through<br>shares.         | Intermediate to<br>deep-level gold<br>mine >2 000 m<br>below surface. | Total Reserves:<br>~ 38.2 Mt.<br>LOM: To 2087. | 650-700 Au koz/annum.<br>7 728 Employees. | Steady state<br>run rate of<br>300-330<br>kt/pm and<br>650-700 koz<br>of gold per<br>annum is<br>expected due<br>to ramp-up of<br>production in<br>FY2015.                                    | Sven Lunsche<br>(Media Enquiries)<br>Tel: 011 562 9763    |

| Controlling Company   | Mine and Location                      | Ownership                             | Mining Method                                      | Reserves                                   | Output and Labour                        | Prospects  | Contact Details  |
|---|--|---------------------------------------|--|--|--|--|--|
| Gold One<br>Corner of Cloverfield and<br>Outeniqua roads<br>Eastvale Springs<br>Gauteng<br>South Africa<br>1559<br>Tel: +27 11 730 7600<br>Fax: +27 11 730 7660<br>www.gold1.co.za      | Modder East mine.<br>Gauteng province. | BCX Gold 90.03 %,<br>Gold One 9.97 %. | Accessing the black<br>reef and Kimberley<br>reef. | Total Reserves:<br>~1.83 Mt.<br>LOM: n/a.  | 103 975 Au oz/annum.<br>1 517 Employees. | The Modder<br>East<br>Metallurgical<br>Plant<br>maintained<br>recoveries of<br>95 % for<br>FY2014.               | Pierre Kruger<br>(Company Secretary)<br>Tel: 011 726 1047  |
| Harmony<br>Randfontein Office park<br>Corner of Main Reef Road<br>and Ward Avenue<br>Randfontein<br>South Africa<br>1760<br>Tel: 011 411 2000<br>Fax: 011 692 3879<br>www.harmony.co.za | Doornkop mine.<br>Gauteng province.    | Harmony 72 %,<br>Phoenix 28 %.        | Mining of Kimberly<br>and South reef.              | Total Reserves:<br>~ 7.6 Mt.<br>LOM: n/a.  | 83 687 Au oz/annum.<br>3 572 Employees.  | Full<br>production at<br>South Reef<br>expected in<br>FY16.  | Jan Roos<br>(General Manager)<br>Tel: 011 411-2501         |
|   | Kusasalethu mine.<br>Gauteng province. |                                       | Mining of West<br>Rand reef.                       | Total Reserves:<br>~ 36.2 Mt.<br>LOM: n/a. | 150 916 Au oz/annum.<br>6 441 Employees. | Twin-shaft<br>operation with<br>sub-vertical<br>twin shaft<br>system yielded<br>good results in<br>FY 2013-2014. | Jacques du Triou<br>(General Manager)<br>Tel: 011 278 6680 |

| Controlling Company  | Mine and Location                             | Ownership                      | Mining Method                             | Reserves                                   | Output and Labour                           | Prospects   | Contact Details   |
|--|---|--------------------------------|---|--|---|---|---|
| Harmony<br>Randfontein Office park<br>Corner of Main Reef Road and<br>Ward Avenue<br>Randfontein<br>South Africa | Phakisa mine.<br>Free State province.         | Harmony 72 %,<br>Phoenix 28 %. | Mining of Basal reef.                     | Total Reserves:<br>~ 20.2 Mt.<br>LOM: n/a. | 95 680 Au oz/annum.<br>3 785 Employees.     | This mine will<br>operate to a<br>depth of some 2<br>400 m with a<br>monthly capacity<br>of 72 000 t.                     | Kelvin Williams<br>(Corporate Affairs)<br>Tel: 011 411 2000 |
| 1760<br>Tel: 011 411 2000<br>Fax: 011 692 3879   | Masimong mine<br>Free State province.         |                                | Mining of Basal and B reefs.              | Total Reserves:<br>~ 8.3 Mt.<br>LOM: n/a.  | 135 772 Au<br>oz/annum.<br>4 348 Employees. | n/a.  | Warren Freeman<br>(General Manager)<br>cell: 0579105967     |
| www.harmony.co.za  | <b>Target 1 mine.</b><br>Free State province. |                                | Basal, Elsburg and<br>Dreyerskraal reefs. | Total Reserves:<br>~ 8.9 Mt.<br>LOM: n/a.  | 144 453 Au<br>oz/annum.<br>1 894 Employees. | Narrow-reef<br>mining to de-<br>stress the rock<br>was successfully<br>moved to high<br>grade reef horizon<br>in FY 2014. | Sipho Nkosi<br>(General Manager)<br>cell: 0574524547        |
|  | Target 3 mine.<br>Free State province.        |                                | Basal, Elsburg and<br>Dreyerskraal reefs. | Total Reserves:<br>~ 8.9 Mt.<br>LOM: n/a.  | 45 429 Au oz/annum.<br>1 500 Employees.     | Target 3 was<br>placed on care<br>and maintenance<br>in October 2014.   | Sipho Nkosi<br>(General Manager)<br>cell: 0574524547        |

| Controlling Company  | Mine and Location                      | Ownership                      | Mining Method  | Reserves   | Output and Labour                          | Prospects  | Contact Details  |
|--|--|--------------------------------|--|--|--|--|--|
| Harmony<br>Randfontein Office park<br>Corner of Main Reef Road and<br>Ward Avenue<br>Randfontein<br>South Africa<br>1760<br>Tel: 011 411 2000<br>Fax: 011 692 3879 | Tshepong mine.<br>Free State province. | Harmony 72 %,<br>Phoenix 28 %. | Mining of Basal<br>reefs.  | Total<br>Reserves: ~<br>21.9Mt.<br>LOM: n/a.     | 135 772 Au oz/annum<br>4 348 Employees.    | Steady state<br>production on B<br>level and decline<br>project.<br>Development<br>continues.<br>Chairlifts to level 75<br>will be available in<br>FY2015. | Kevin Williams<br>(Financial Department)<br>Cell: 0579044000 |
| www.harmony.co.za  | Unisel mine.<br>Free State province.   |                                | Mining and pillar<br>reclamation to<br>access the Basal,<br>Leader and<br>Middle reefs. Ore<br>is processed at<br>Harmony 1 plant. | Total<br>Reserves: ~<br>2.9 Mt.<br>LOM: <1 year. | 59 9093 Au oz/annum<br>1 957<br>Employees. | Approaching end of<br>life of mine. Mining<br>is expected to<br>continue to FY<br>2016.  | Theo Benzien<br>(General Manager)<br>Cell: 0572372601        |
|  | Joel mine.<br>Free State province.     |                                | Mining of south-<br>western edge of<br>the<br>Witwatersrand<br>Basin.  | Reserves: 2.4<br>Mt.<br>LOM: n/a.                | 75 072 Au oz/annum.<br>1 783 Employees.    | Two sections<br>swapped for Beatrix<br>in 2014 will provide<br>increased<br>production<br>prospects in the<br>future.                                      |  |

| Controlling Company                             | Mine and Location           | Ownership                     | Mining Method                       | Reserves                 | Output and<br>Labour           | Prospects   | Contact Details                             |
|---|-----------------------------|-------------------------------|-------------------------------------|--------------------------|--------------------------------|---|---|
| Mintails  | Mogale Gold recovery plant. | NewCo 26 %,                   | Recovery/open                       | Total Reserves:          | 34 552 Au                      | Total capacity of the                                 | Mrs. K Konradie                             |
| 14 Tweelopies Road,<br>Krugersdorp<br>1740      | Gauteng province.           | Mogale 74 %.                  | cast workings.                      | ~ n/a.<br>LOM: n/a.      | oz/annum.<br>478 Employees.    | two gold plants<br>combined is circa 500<br>000 t/pm. | (Financial Department)<br>Tel: 011 660 9638 |
| Tel: 011 660 9638<br>Fax: 011 660 8132          |                             |                               |                                     |                          |                                |   |   |
| info@mintailssa.co.za                           |                             |                               |                                     |                          |                                |   |   |
| Palabora Mining Company                         | Palabora Mining Company.    | Palabora 66 %,<br>BBBEE 44 %. | Recovery of gold as a by-product of | Total Reserves:<br>~n/a. | Au oz: n/a<br>2 200 Employees. | n/a.  | Ms. R Setsiba<br>(Financial Manager)        |
| Palabora Mining Company<br>Limited<br>PO Box 65 | Mpumalanga province.        |                               | copper.                             | LOM: n/a.                |                                |   | Tel: 011 780 2144                           |
| 1 Copper Road<br>Palabora                       |                             |                               |                                     |                          |                                |   |   |
| Limpopo<br>1389                                 |                             |                               |                                     |                          |                                |   |   |
| Tel: 015 780 2911<br>Fax: 015 780 2093          |                             |                               |                                     |                          |                                |   |   |
| www.palabora.com                                |                             |                               |                                     |                          |                                |   |   |

| Controlling Company   | Mine and Location   | Ownership                                    | Mining<br>Method                                  | Reserves   | Output and<br>Labour                        | Prospects  | Contact Details   |
|---|---|--|---|--|---|--|---|
| Pan African Resources<br>Office 101<br>First Floor The First Corner<br>Cradock and Biermann<br>Avenues<br>Rosebank<br>Johannesburg<br>South Africa<br>2196<br>Tel: 011 243 2900<br>Fax: 011 880 1240<br>panafricanresources.com | Barberton Gold mine.<br>Mpumalanga province.                  | Pan African Resources 74 %<br>Shanduka 26 %. | Underground<br>mining.                            | Total Reserves:<br>~ 1.16 Moz.<br>LOM: <19<br>years. | 67.5 Au<br>oz/annum.<br>2 504 Employees.    | 95 Koz of Au<br>production per<br>annum, inclusive of<br>tailings by 2015.   | Betsie De Jager<br>(Financial Manager)<br>Tel: 017 620 1604 |
|   | Barberton Tailings retreatment plant.<br>Mpumalanga province. |  | Retreatment<br>plant.                             | Total reserves:<br>~n/a<br>LOM: > 1 year.            | 20 koz. of<br>Au/annum.<br>2 504 Employees. | n/a.   |   |
|   | Evander mines.<br>Mpumalanga province.                        |  | Underground<br>mining of the<br>Kimberly<br>reef. | Total reserves~<br>7.66 Moz.<br>LOM: > 15<br>years.  | 9 708 Au<br>oz/annum.<br>2 899 Employees.   | Acquisition of<br>Evander operations<br>in FY2013 provided<br>an additional<br>production pipeline<br>that will aid in<br>ramping up<br>production. Evander<br>will aid ramp-up of<br>production, Circa<br>2015. |   |

| Controlling Company  | Mine and Location                           | Ownership                     | Mining<br>Method  | Reserves                                     | Output and<br>Labour                      | Prospects | Contact Details   |
|--|---|-------------------------------|---|--|---|-----------|---|
| Oakbay Resources and<br>Energy<br>Grayston Ridge Office Park<br>Block A, Lower Ground<br>Floor<br>144 Katherine street<br>Sandown<br>Sandton<br>South Africa<br>2037<br>Tel: 011 430 7640<br>Fax: 011 325 5942<br>www.oakbey.co.za | Shiva Uranium mine.<br>North West Province. | Shiva 34 %,<br>Oakridge 76 %. | Gold Bullion is<br>derived as a by-<br>product of U <sub>3</sub> O <sub>8.</sub>      | Total reserves:<br>~n/a.<br>LOM: n/a.        | 11 845 Au<br>oz/annum.<br>Employees: n/a. | n/a.      | Beverly Du Preez<br>(Financial Assistant)<br>Tel: 018 467 9000  |
| Sibanye Gold<br>Libanon Business Park<br>1 Hospital Street (off Cedar<br>Avenue)<br>Libanon<br>Westonaria<br>1780<br>Tel: 011 278 9600<br>Fax: 011 278 9863<br>www.sibanyegold.co.za   | Kloof Gold mine.<br>Gauteng province.       | Sibanye 100 %.                | Underground<br>mining and<br>surface stockpiles<br>at two<br>metallurgical<br>plants. | Total reserves.<br>631 Moz.<br>LOM: To 2027. | 4 223 Au<br>oz/annum.<br>8 528 Employees  | n/a.      | Motlalepule Moretsi<br>(Financial Manager)<br>Tel: 018 788 7180 |

| Controlling Company   | Mine and Location  | Ownership      | Mining Method  | Reserves                                      | Output and Labour                            | Prospects  | Contact Details  |
|---|--|----------------|--|---|--|--|--|
| Controlling Company<br>Sibanye Gold<br>Libanon Business Park<br>1 Hospital Street<br>Libanon<br>Westonaria<br>1780<br>Tel: 011 278 9600<br>Fax: 011 278 9863<br>www.sibanyegold.co.za | Beatrix mine.<br>Free State province.                                | Sibanye 100 %. | Underground<br>mining of Beatrix<br>and Kalkoenkrans<br>reefs.                 | Total reserves:<br>n/a.<br>LOM: n/a.          | 312.6 Au<br>oz/annum.<br>8 528 Employees.    | Beatrix new order<br>mining right, valid<br>from 7 February<br>2007 to 6<br>February 2019, in<br>respect of 16 874<br>hectares in the<br>magisterial<br>district<br>Matjhabeng could<br>significantly<br>increase its<br>reserves. | Marelize De Kock<br>(Financial Assistant)<br>Tel: 018 788-7265 |
|   | Driefontein mine.<br>Gauteng province.                               |                | Mining: Carbon<br>Leader reef, the<br>VCR and the<br>Middelvlei reef<br>(MVR). | Total reserves: ~ 7<br>843 Moz.<br>LOM: 2027. | 606 600 Au<br>oz/annum.<br>13 546 Employees. | n/a.   | Marelize De Kock<br>(Financial Assistant)<br>Tel: 018 788-7265 |
|   | Cooke mines (including First Uranium)/Ezulwini.<br>Gauteng province. |                | Mining of Elsburg<br>and Ventersdorp<br>contact reefs.                         | Total reserves:<br>~Au 184 Moz.<br>LOM: 2036. | 36 568 Au<br>oz/annum.<br>1 297 Employees.   | By mining the<br>pillar left between<br>two Cooke shafts,<br>Cooke is expected<br>to generate 260<br>000 oz of gold<br>from FY 2016.   | Ann-Louise Edwards<br>(Financial Manager)<br>Tel: 018 788-7298 |

| Controlling Company   | Mine and Location                              | Ownership   | Mining<br>Method   | Reserves  | Output and<br>Labour                         | Prospects   | Contact Details                                       |
|---|--|---|--|---|--|---|---|
| Russel New Berry Kleim's  | Uduma Trading mine.<br>Mpumalanga province.    | Russel New Berry Kleim, 100 %                         | Small Scale<br>Mining.                                       | Total reserves:<br>n/a.<br>LOM: n/a.  | 87.2 Au<br>oz/annum.<br>9 Employees          | Mining<br>developments on<br>hold as a result of<br>the low gold price. | Russel Newberry<br>(Owner)<br>Tel: 072 049 5422       |
| Vantage Gold Pty Ltd<br>Regional Office<br>8 Streak Street<br>Nelspruit<br>South Africa<br>1201     | Sheba Gold mine.<br>Mpumalanga province.       | Vantage Goldfields 74 %,<br>Lomshiyo Investments 26 % | Underground<br>mining of<br>Barberton<br>greenstone<br>belt. | Total reserves:~<br>Au 5.91 Moz.<br>(combined)<br>LOM: Sensitive<br>to price of gold. | 28 365 Au<br>oz/annum<br>647 Employees       |   | Mr. Tony Perry<br>(Mine Manager)<br>Tel: 013 753 3046 |
| PO Box 820,<br>Nelspruit<br>1200<br>Tel: 013 753 3046<br>Fax: 013 752 6978<br>vantagegoldfields.com | Fairview gold mine.<br>Mpumalanga province.    |   |  |   | 53 264 Au<br>oz/annum.<br>1 393<br>Employees |   |   |
|   | New Consort gold mine.<br>Mpumalanga province. |   |  |   | 15 079 Au<br>oz/annum.<br>433 Employees      |   |   |
|   | Barbrook mines.<br>Mpumalanga province.        |   |  |   | 5 144 Au<br>oz/annum.<br>126 Employees       |   | J. Scholtz<br>Plant Manager<br>(013) 712 9200         |

| Controlling Company  | Mine and Location                                 | Ownership   | Mining<br>Method  | Reserves  | Output and<br>Labour                    | Prospects  | Contact Details   |
|--|---|---|---|---|---|--|---|
| Vantage Gold<br>Regional Office<br>8 Streak Street<br>Nelspruit<br>South Africa<br>1200<br>PO Box 820,<br>Nelspruit<br>1200<br>Tel: 013 753 3046<br>Fax: 013 752 6978<br>vantagegoldfields.com | New Consort gold Mine.<br>Mpumalanga province.    | Vantage Goldfields 74 %,<br>Lomshiyo Investments 26 % | Underground<br>mining of<br>Barberton<br>greenstone<br>belt.        | Total reserves:~<br>Au 5.91 Moz.<br>(combined)<br>LOM: n/a. | 15 079 Au<br>oz/annum.<br>433 Employees | Mining<br>developments on<br>hold as a result of<br>the low gold price<br>n/a. | Mr. Tony Perry<br>(Mine Manager)<br>Tel: 013 753 3046     |
|  | Mokonjwaan Imperial mine.<br>Mpumalanga province. |   | Underground<br>mining on<br>the<br>Barberton<br>greenstone<br>belt. | Total Reserves:<br>~n/a<br>LOM: n/a.                        | 22 666 Au<br>oz/annum.<br>401 Employees |  | Derrick Short<br>(Financial Manager)<br>Tel: 013 753 3046 |

| Controlling Company  | Mine and Location     | Ownership                            | Mining<br>Method                 | Reserves                         | Output and Labour              | Prospects                              | Contact Details                          |
|--|-----------------------|--------------------------------------|----------------------------------|----------------------------------|--------------------------------|--|--|
| Village Main Reef  | Blyvooruitzicht mine. | Village Main Reef 74 %,<br>BBEE 26 % | Mining of<br>Archaean            | Reserves: ~<br>1 505 Moz         | Output: 29 129 Au<br>oz/annum. | Blyvooruitzicht was<br>put on care and | Mr. Wells Sempe<br>(Acting Mine Manager) |
| 210 Cumberland<br>Avenue Bryanston<br>South Africa<br>2021 | Gauteng province.     | DDLL 20 76                           | Murchison<br>Greenstone<br>belt. | LOM: Care<br>and<br>Maintenance. | 1 505 Employees                | maintenance in 2014.                   | Tel: 011 476-2637                        |
| Tel: 0861 867 333<br>Fax: n/a                              |                       |                                      |                                  |                                  |                                |  |  |
| villagemainreef.co.za                                      |                       |                                      |                                  |                                  |                                |  |  |
|  |                       |                                      |                                  |                                  |                                |  |  |

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