

## **AN OVERVIEW OF CURRENT GOLD EXPLORATION PROJECTS AND NEW MINE DEVELOPMENTS IN SOUTH AFRICA**

DIRECTORATE: MINERAL ECONOMICS



**mineral resources**

Department:  
Mineral Resources  
**REPUBLIC OF SOUTH AFRICA**

**AN OVERVIEW OF CURRENT GOLD EXPLORATION PROJECTS  
AND NEW MINE DEVELOPMENTS IN SOUTH AFRICA**

DIRECTORATE: MINERAL ECONOMICS

Compiled by: Mr Pieter Perold  
Email: [Pieter.Perold@dme.gov.za](mailto:Pieter.Perold@dme.gov.za)

Picture on front page by courtesy: Central Rand Gold Limited

Issued by and obtainable from  
The Director, Mineral Economics, Mineralia Centre,  
234 Visagie Street, Pretoria • Private Bag X59, Pretoria, 0001  
Telephone: +27 12 317 8538, Telefax: +27 12 320 4327

**DEPARTMENT OF MINERAL RESOURCES**

Director-General

Adv. S Nogxina

**MINERAL POLICY AND PROMOTION BRANCH**

Acting Deputy Director-General

Mr. M Mabuza

**MINERAL PROMOTION CHIEF DIRECTORATE**

Chief Director

Dr. S Ndabezitha

**DIRECTORATE: MINERAL ECONOMICS**

Acting Director

Ms. N Dlambulo

Deputy Director: Precious Metals  
and Minerals and Ferrous Minerals

Mr. A Conradie

THIS, THE SECOND EDITION, PUBLISHED IN JANUARY 2010

WHEREAS THE GREATEST CARE HAS BEEN TAKEN IN THE COMPILATION OF THE  
CONTENTS OF THIS PUBLICATION, THE DEPARTMENT OF MINERAL RESOURCES  
DOES NOT HOLD ITSELF RESPONSIBLE FOR ANY ERRORS OR OMISSIONS

ISBN: 978 - 1 - 919927- 97- 8

COPYRIGHT RESERVED

## **FOREWORD**

This second edition of the report on gold exploration projects and new mine developments is intended to provide a complete coverage of the gold exploration industry in South Africa.

The report consists of an alphabetical list of the companies operating/managing the 26 different projects, and provides details of the projects such as location, status, projected annual output and mineral reserves and resources.

Information contained in the Report was obtained from media sources and company financial reports and/or websites.

It is hoped that this compilation will provide a useful reference for all industry participants as well as prospective investors.

## TABLE OF CONTENTS

<b>Content</b>	<b>Page</b>
Foreword	i
Table of Contents	ii
List of Figures	iii
Abbreviations and Symbols	iv
A. Introduction	1
B. Gold Exploration and Mining Companies' Projects	3
C. Index	14
D. References	16

## LIST OF FIGURES

Figure	Page
1. The Witwatersrand Basin, showing the position of the different gold fields	2

## ABBREVIATIONS AND SYMBOLS

g/t	gram per ton
Mt	Million Tons
N/a	Not available
Ozt	troy ounce
t	metric ton

Notes: Ore resource figures include ore reserve figures



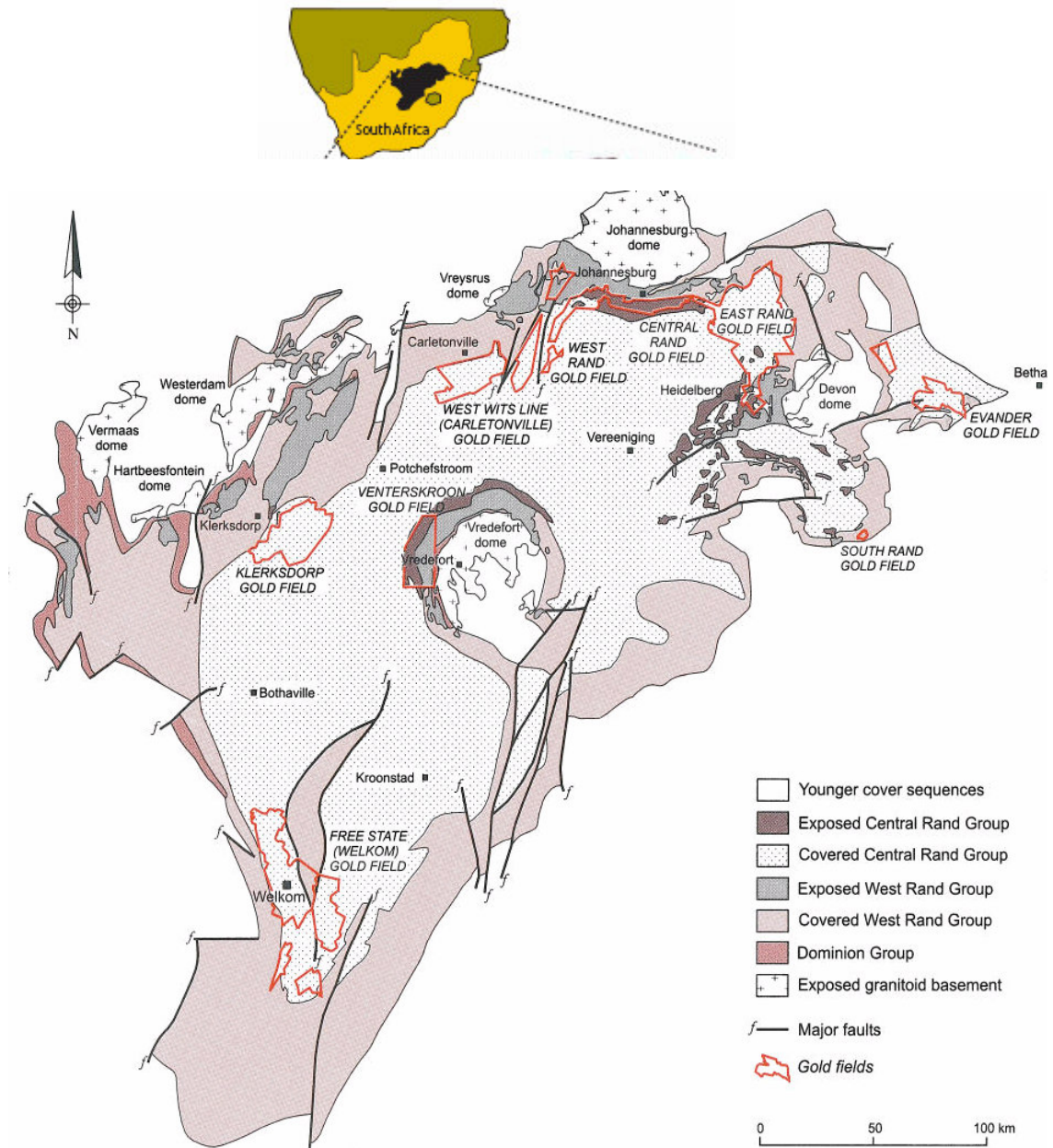
## 1. INTRODUCTION

In ancient times, gold was mined extensively in southern Africa, but apparently only to a limited extent within South Africa. 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 finds in Mpumalanga Province, at Pilgrims Rest (1872), Kaapse Hoop (1874) and Barberton (1882). The discovery of gold in conglomerates on the farm Langlaagte (now Johannesburg), on the Witwatersrand, in 1886, led to the exploitation of the world's largest known gold deposits. Mining operations spread rapidly along extensions of these conglomerates in the Central Rand, West Rand and East Rand gold fields. Later, discoveries of these 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 (Fig. 1).

By far the most important occurrences of gold in South Africa 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 downwarps in the Witwatersrand Basin and consist of fans or fan deltas deposited by fluvial systems that accumulated erosional debris from an uplifted northwestern 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.



**Fig. 1 – The Witwatersrand Basin, showing the position of the different gold fields**

(Sources: Gold in South Africa, The Mineral Resources of South Africa)

## 2. GOLD EXPLORATION AND MINING COMPANIES' PROJECTS \*

### 2.1 CENTRAL RAND GOLD SOUTH AFRICA (PTY) LIMITED

**Holding company: Central Rand Gold Limited**

6 Riviera Road, Houghton, Johannesburg

PO Box 2204, Houghton, 2041

Tel: + 27 11 551 4000

Fax: + 27 11 646 0599

E-mail: info@centralrandgold.com

Website: www.centralrandgold.com

Project	Location	Status	Projected annual gold output (ozt)
Central Rand	Johannesburg Gauteng Province	Feasibility study	#

Note: #: Has not been established due to status of the project

#### **Reserves and resources (100%)**

Central Rand	Tonnes (Mt)	Grade (g/t)	Gold (t)
Probable reserves	2,1	4,1	8,6
Indicated resources	84,6	8,2	693,7
Inferred resources	58,9	7,0	412,3

### 2.2 DRDGOLD LIMITED

EBSCO House 4, 299 Pendoring Ave, Blackheath, Randburg, Johannesburg

PO Box 390, Maraisburg, 1700

Tel: +27 11 219 8700

Fax: +27 11 476 2637

E-mail: james@rair.co.za

Website: www.drdgold.com

Note: \* Listed by company operating the project

<b>Project</b>	<b>Location</b>	<b>Status</b>	<b>Projected annual gold output (ozt)</b>
Argonaut	Johannesburg Gauteng Province	Initial Exploration	#
ErgoGold	Brakpan Gauteng Province	Phase 1: Production Phase 2: Feasibility study	Phase 1: 75 000 Phase 2: #

Note: #: Has not been established due to status of the project

### **2.3 EASTERN GOLDFIELDS LIMITED**

**Holding company: Eastern Goldfields, Inc.**

8 Streak Street, Nelspruit

PO Box 820, Nelspruit, 1200

Tel: +27 13 753 3046

Fax: +27 13 752 6978

E-mail: [info@easterngoldfields.com](mailto:info@easterngoldfields.com)

Website: [www.easterngoldfields.com](http://www.easterngoldfields.com)

<b>Project</b>	<b>Location</b>	<b>Status</b>	<b>Projected annual gold output (ozt)</b>
Worcester	Barberton Mpumalanga Province	Pre-feasibility study	20 000

### **Reserves and resources (100%)**

<b>Worcester</b>	<b>Tonnes (Mt)</b>	<b>Grade (g/t)</b>	<b>Gold (t)</b>
Indicated resources	2,0	3,43	6,9
Inferred resources	1,0	3,38	3,4

## **2.4 GOLD ONE INTERNATIONAL LIMITED**

45 Empire Road, Parktown, Johannesburg  
Postnet Suite 345, Private Bag x 30500, Houghton, 2041

Tel: +27 11 726 1047

Fax: +27 11 726 1087

E-mail: carol.smith@gold1.co.za

Website: www.gold1.co.za

<b>Project</b>	<b>Location</b>	<b>Status</b>	<b>Projected annual gold output (ozt)</b>
Bothaville	Welkom Free State	Initial Exploration	#
Modder East	Springs Gauteng Province	Construction	180 000
Ventersburg	Welkom Free State	Pre-feasibility Study	500 000

Note: #: Has not been established due to status of the project

### **Reserves and resources (100%)**

<b>Modder East</b>	Tonnes (Mt)	Grade (g/t)	Gold (t)
Probable reserves	7,7	5,5	42,7
Indicated resources	22,6	3,3	74,8
Inferred resources	13,6	2,3	31,3

## **2.5 GREAT BASIN GOLD RSA (PTY) LIMITED**

**Holding Company: Great Basin Gold Limited**

Ground Floor, 138 West Street, Sandton, Johannesburg  
PO Box 78182, Sandton, 2146

Tel: + 27 11 301 1800

Fax: +27 11 301 1840

E-mail: tsholos@gbgold.co.za

Website: www.grtbasin.com

<b>Project</b>	<b>Location</b>	<b>Status</b>	<b>Projected annual gold output (ozt)</b>
Burnstone	Balfour Mpumalanga Province	Construction	243 000

#### **Reserves and resources (100%)**

<b>Burnstone</b>	<b>Tonnes (Mt)</b>	<b>Grade (g/t)</b>	<b>Gold (t)</b>
Proven reserves	27,6	4,27	117,85
Probable reserves	2,4	4,01	9,62
Measured resources	39,0	7,56	294,84
Indicated resources	15,7	4,95	77,72
Inferred resources	18,6	4,42	82,21

## **2.6 HARMONY GOLD MINING COMPANY LIMITED**

Randfontein Office Park, Corner of Main Reef Road and Ward Avenue, Randfontein  
PO Box 2, Randfontein, 1760

Tel: + 27 11 411 2000

Fax: +27 11 692 3879

E-mail: corporate@harmony.co.za

Website: www.harmony.co.za

<b>Project</b>	<b>Location</b>	<b>Status</b>	<b>Projected annual gold output (ozt)</b>
Evander South	Kinross Mpumalanga Province	Advanced Exploration	#
Target North	Allanridge Free State Province	Feasibility study	87 224
Twistdraai	Kinross Mpumalanga Province	Initial Exploration	#

Note: #: Has not been established due to status of the project

**Reserves and resources (100%)**

<b>Evander South</b>	Tonnes (Mt)	Grade (g/t)	Gold (t)
Proven reserves	2,8	5,7	16,0
Probable reserves	7,2	6,2	44,7
Measured resources	13,3	11,2	149,0
Indicated resources	11,3	11,2	126,3
Inferred resources	34,7	11,4	394,2

<b>Target North</b>	Tonnes (Mt)	Grade (g/t)	Gold (t)
Proven reserves	4,8	6,1	29,3
Probable reserves	9,0	5,6	50,4
Measured resources	6,3	9,8	61,8
Indicated resources	13,9	7,7	106,3
Inferred resources	5,2	6,3	33,0

**2.7 KWAGGA GOLD (PTY) LIMITED**

17 Georgian Crescent, Northdowns, Bryanston East, 2152, Johannesburg  
PO Box: 98811, Sloane Park, 2152

Tel: +27 11 516 1300

Fax: +27 11 516 1310

E-mail: [contact@lonmin.com](mailto:contact@lonmin.com)

Website: [www.lonmin.com](http://www.lonmin.com)

<b>Project</b>	<b>Location</b>	<b>Status</b>	<b>Projected annual gold output (ozt)</b>
FSC	Free State province	Initial Exploration	#

Note: # Has not been established due to the status of the project

## **2.8 MIRANDA MINERAL HOLDINGS LIMITED**

Pecanwood Building The Greens Office Park, Charles de Gaulle Crescent,.  
Highveld, Centurion  
PO Box 1045, Northriding, 2162

Tel: + 27 12 665 4200

Fax: +27 12 665 4458

E-mail: info@mirandaminerals.com

Website: www.mirandaminerals.com

<b>Project</b>	<b>Location</b>	<b>Status</b>	<b>Projected annual gold output (ozt)</b>
Limpopo	Acornhoek Limpopo Province	Initial Exploration	#

Note: # Has not been established due to the status of the project

## **2.9 NEW DAWN MINING SA (PTY) LIMITED**

**Holding company: New Dawn Mining Corporation**

Monument Park Office Block, Corner Elephant and Steenbok Streets, Monument Park,  
Pretoria  
PO Box 25622, Monument Park, 01005

E mail: info@newdawnmining.com

Website: www.newdawnmining.com



<b>Project</b>	<b>Location</b>	<b>Status</b>	<b>Projected annual gold output (ozt)</b>
Blue Dot Property	Schweizer-Reneke North-West Province	Feasibility study to re-open mine	#

Note: #: Has not been established due to status of the project

#### **Reserves and resources (100%)**

<b>Blue Dot</b>	<b>Tonnes (Mt)</b>	<b>Grade (g/t)</b>	<b>Gold (t)</b>
Proven reserves	14,4	3,84	55,29
Probable reserves	41,4	3,43	142,00
Measured resources	14,4	3,84	55,29
Indicated resources	76,6	3,20	245,28
Inferred resources	65,9	3,90	257,01

#### **2.10 PLATFIELDS LIMITED**

SA Reserve Bank Building, St Georges Mall, Cape Town

PO Box 51949, Waterfront, 8002

Tel: + 27 21 423 4536

Fax: +27 21 423 4527

E-mail: bongani@platfields.co.za

Website: www.platfields.co.za

<b>Project</b>	<b>Location</b>	<b>Status</b>	<b>Projected annual gold output (ozt)</b>
Grootfonteinberg	Pilgrim's Rest Mpumalanga Province	Initial Exploration	#

Note: # Has not been established due to the status of the project

## **2.11 SABI GOLD (PTY) LIMITED**

**Holding Company: Sabi Gold Limited**

Tel: +27 83 556 8352

E-mail: russel.lamming@sabigold.com

Website: www.sabigold.com

<b>Project</b>	<b>Location</b>	<b>Status</b>	<b>Projected Annual gold Output(ozt)</b>
M'Hlati	Malelane Mpumalanga province	Initial Exploration	#

Note: # Has not been established due to the status of the project

## **2.12 SIMMER AND JACK MINES LIMITED**

5 Press Avenue, Selby, Johannesburg

PO Box 82291, Southdale, 2135

Tel: +27 11 830 0390

Fax: +27 11 837 3840

E-mail: info@simmers.co.za

Website: www.simmers.co.za

<b>Project</b>	<b>Location</b>	<b>Status</b>	<b>Projected annual gold output (ozt)</b>
Weltevreden	Orkney North West Province	Pre-feasibility study	90 000

### **Reserves and resources (100%)**

<b>Weltevreden</b>	<b>Tonnes (Mt)</b>	<b>Grade (g/t)</b>	<b>Gold (t)</b>
Measured resources	0,018	4,71	0,085
Indicated resources	17,351	4,17	72,352
Inferred resources	0,229	5,79	1,323

### **2.13 SUPERIOR MINING CORPORATION (SOUTH AFRICA) (PTY) LIMITED**

**Holding company: Superior Mining International Corporation**

92 11<sup>th</sup> Street, Parkmore, Johannesburg

PO Box 2233, Parklands, 2121

Website: [www.superiormining.com](http://www.superiormining.com)

<b>Project</b>	<b>Loation</b>	<b>Status</b>	<b>Projected Annual gold output (ozt)</b>
Mangalisa	Welkom Free State Province	Advanced exploration	117 575

### **2.14 TAUNG GOLD LIMITED**

**Holding company: African Precious Mineral Resources (Pty) Limited**

4 A Manhattan Office Park, 16 Pieter Road, Highveld Technopark, Centurion

PO Box 68149, Highveld, 0169

Tel: +27 12 665 5060

Fax: +27 83 303 9815

<b>Project</b>	<b>Location</b>	<b>Status</b>	<b>Projected annual gold output (ozt )</b>
South Rand	South Rand	Advanced exploration	200 000

## **2.15 WEST WITS MINING SOUTH AFRICA (PTY) LIMITED**

### **Holding Company: West Wits Mining Limited**

7 West Street, Houghton, Johannesburg

PO Box 36355, Menlo Park, 0102

E- mail: info@westwitsmining.com

Website: www.westwitsmining.com

<b>Project</b>	<b>Location</b>	<b>Status</b>	<b>Projected annual gold output (ozt)</b>
Emerald	Roodepoort Gauteng	Advanced Exploration	#

Note: # Has not been established due to the status of the project

### **Reserves and resources (100%)**

<b>Emerald</b>	<b>Tonnes (Mt)</b>	<b>Grade (g/t)</b>	<b>Gold (t)</b>
Proven reserves	1,64	1,81	2,97
Indicated resources	0,17	1,72	0,29
Inferred resources	0,42	1,40	0,59

## **2.16 WITWATERSRAND CONSOLIDATED GOLD RESOURCES LIMITED**

12<sup>th</sup> Floor, 70 Fox Street, Johannesburg

PO Box 61147, Marshalltown, 2107

Tel: + 27 11 832 1749

Fax: +27 11 838 3208

E-mail: marcw@witsgold.com

Website: www.witsgold.com

<b>Project</b>	<b>Location</b>	<b>Status</b>	<b>Projected annual gold output (ozt)</b>
Beisa North	Theunissen Free State Province	Advanced Exploration	#
Bloemhoek	Virginia Free State Province	Pre-Feasibility Study	224 000
Boskop	Potchefstroom North West Province	Advanced Exploration	#
De Bron	Virginia Free State Province	Scoping Study	#
Kleinfontein	Potchefstroom North West Province	Advanced Exploration	#
Kromdraai	Klerksdorp North West Province	Advanced Exploration	#

Note: #: Has not been established due to status of the project

#### **Reserves and resources (100%)**

<b>Beisa North</b>	Tonnes (Mt)	Grade (g/t)	Gold (t)
Inferred resources	27,9	1,7	47,4

<b>Bloemhoek</b>	Tonnes (Mt)	Grade (g/t)	Gold (t)
Probable reserves	31,64	5,33	168,6
Indicated resources	47,8	6,9	329,7
Inferred resources	15,3	6,9	3,4

<b>Boskop</b>	Tonnes (Mt)	Grade (g/t)	Gold (t)
Inferred resources	30,8	10,0	307,9

<b>De Bron</b>	Tonnes (Mt)	Grade (g/t)	Gold (t)
Indicated resources	23,2	5,2	119,8
Inferred resources	9,4	5,3	49,5

<b>Kleinfontein</b>	Tonnes (Mt)	Grade (g/t)	Gold (t)
Inferred resources	47,2	6,1	286,4

<b>Kromdraai</b>	Tonnes (Mt)	Grade (g/t)	Gold (t)
Inferred resources	57,5	16,2	931,5

### 3. INDEX

	<b>Page</b>
African Precious Mineral Resources (Pty) Limited	11
Argonaut project	4
Bloemhoek project	13
Beisa North project	13
Blue Dot project	9
Boskop project	13
Bothaville project	5
Burnstone project	6
Central Rand Gold Limited	3
Central Rand Gold South Africa (Pty) Limited	3
Central Rand project	3
De Bron Project	13
DRDGOLD Limited	3
Eastern Goldfields, Inc	4
Eastern Goldfields Limited	4
Emerald project	12
Ergo Gold Project	4
Evander South project	6
FSC project	8
Gold One International Limited	5
Great Basin Gold Limited	5
Great Basin Gold RSA (Pty) Limited	5
Grootfonteinberg project	9
Harmony Gold Mining Company Limited	6
Kleinfontein project	13
Kromdraai project	13
Kwagga Gold (Pty) Limited	7
Limpopo project	8
Mangalisa project	11
M'Hlati project	10
Miranda Mineral Holdings Limited	8
Modder East project	5
New Dawn Mining Corporation	8
New Dawn Mining SA (Pty) Limited	8
Platfields Limited	9
Sabi Gold Limited	10
Sabi Gold ( Pty) Limited	10

Simmer and Jack Mines Limited	10
South Rand project	11
Superior Mining Corporation (South Africa) (Pty) Limited	11
Superior Mining International Corporation	11
Target North project	6
Taung Gold Limited	11
Twistdraai project	6
Ventersburg project	5
Weltevreden project	10
West Wits Mining Limited	12
West Wits Mining SA (Pty) Limited	12
Witwatersrand Consolidated Gold Resources Limited	12
Worcester project	4



## 4. CONCLUSION

This edition of the report on gold exploration projects provides practical information on the 26 projects. Information on the projects, such as location, status, projected annual output and mineral reserves and resources were obtained by analyzing the annual reports. Parts of the information were obtained through enquiries, such as faxes and electronic mail and were conveyed to me by the project leaders, geologists and mine managers.

## 5. REFERENCES

1. Central Rand Gold Limited. 2008
2. DRDGOLD Limited: 2009
3. Harmony Gold Mining Company Limited 2009
4. New Dawn Mining Corporation: Management discussion and analysis 2008.
5. New Dawn Mining Corporation: Annual information form, year ended September 2008
6. Platfields Limited. 2008
7. Robb, L.J. and Robb, V.M., 1998. Gold in the Witwatersrand basin *in* The Mineral Resources of South Africa (M.G.C. Wilson and C.R. Anhaeusser, eds): Handbook, Council for Geoscience, 16, p.294-349
8. Simmer And Jack Mines Limited: 2009
9. Superior Mining Corporation: Form 51 – 102 FI. Management Discussion and Analysis, year ended July 31 2008
10. Virtual Metals Research and Consulting Limited, 2006. *Gold in South Africa*: 212 pp
11. West Wits Mining Limited: 2008
12. Witsgold: 2009