

OPERATING AND DEVELOPING COAL MINES IN THE REPUBLIC OF SOUTH AFRICA, 2014

DIRECTORATE MINERAL ECONOMICS



mineral resources

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Mineral Resources
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DIRECTORATE MINERAL ECONOMICS

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1.FOREWORD

This publication is an updated version of the previous publication, of coal mines operating in South Africa, using information obtained from coal mining companies, to whom thanks are due.

The publication follows previous publications with details of coal mines being grouped under the names of mining groups and controlling companies. The details include mine location, coal rank, mining and coal processing methods, transportation of final products and the markets into which the coal is currently sold.

South Africa's total run-of-mine (ROM) production grew by 4.8 percent from 315 Mt in 2011 to 330 Mt in 2012 owing to some mines ramping up their production and increased number of operating coal mines. Opencast mining accounted for 64 percent of ROM production, followed by bord and pillar's 33.6 percent, stoping's 1.9 percent and longwall at 0.5 percent. Saleable coal production improved by 3.1 percent to 258.6 Mt from 250.7 Mt in 2011. Local coal sales volume swelled by 4.4 percent from 177.9 Mt in 2011 to 185.7 Mt in 2012. Local sales value surged 17.9 percent from R37.2 billion to R43.9 billion due to higher sales volumes and improved unit values which leaped by 13.4 percent from R209 /t in 2011 to R237 /t in 2012. Export sales revenue also recorded an increase of 3.3 percent to R52.2 billion in 2012 from R50.5 billion in 2011 mainly due to higher sales volumes. Overall, South Africa's total coal sales value increased by 9.5 percent to R96.1 billion in 2012.

We trust that this publication will provide useful information for reference to all those interested in South Africa's coal mining industry, both locally and internationally.

T R Masetlana

January 2014

Director

2. GEOLOGY OF THE COALFIELDS REFERRED TO IN THE PUBLICATION

TABLE 1: COALFIELDS GEOLOGY

| | Coalfield | Coal seams |
|------|---|--|
| 1. | Waterberg | Coal zones 1, 2, 3, 4A, 4, 5, 6, 7, 8, 9, 10 and 11 comprise a large number of alternating coal-rich and coal-poor composite layers with layers of carbonaceous shale. Each zone is from centimeters up to a 100m in thickness. |
| 2.1 | Ermelo (previously Eastern Transvaal coalfield) | Five major developed coal seams are the E, D, C-lower and C. |
| 2.2. | Ermelo (Glenfillan-Wakkerstroom) | Targas, Coking, Dundas, Upper Dundas, Gus, Alfred and Eland. |
| 3. | Klip River | Bottom seam and Top seam. Top seam better developed than Bottom seam. |
| 4. | Utrecht | The Vryheid formation hosts the Coking, Dundas, Alfred, Eland and Gus seams. The Gus seam is well developed and the most economically important. |
| 5. | Vryheid | This coalfield hosts the same seams as the Utrecht except for the Bonas seam, which is inconsistently developed in the Vryheid coalfield and not present in the Utrecht coalfield. Dundas seam splits into Upper and Lower Dundas seams. The upper seam contains coking coal but it is too thin to be mined alone. |
| 6. | Nongoma | The Nongoma coalfield consist of the A, B, and C zones within the Emakwezini formation. The Vryheid formation contains the Main seam, B zone and A zone. |
| 7. | Somkhele | Emakwezini formation hosts Lower, Main, Upper seam 1 and Upper seam 2. Seams are respectively called A, B, C and D seams in the Northwestern portion. |
| 8. | Molteno Indwe | The Molteno Indwe hosts the Indwe, Guba, Cala/Cala |

| | Coalfield | Coal seams |
|-----|-----------------------|---|
| | | Pass/Molteno/Piet /Upper and Ulin Gubenxa seams. |
| 9. | Witbank | Volksrust formation hosts the No 1, 2, 3, 4 and 5 seams. The no 2 seam contains up to 6 quality zones and is most economically important for export steam coal. The no 4 seam is split into no's 4A, 4 upper and 4 lower seams. It is economically important but lower in quality than the no 2 seam. |
| 10. | Vereeniging-Sasolburg | Coalfield is subdivided into Sigma, Cornelia and Coalbrook basins. The Sigma and Coalbrook basins host the no 1 and no 2 seams. The no 1 seam is sometimes split into no 1A, 1B and 1C seams. Cornelia basin hosts the Bottom, Middle and top unit seams. |
| 11. | Highveld | The Vryheid formation hosts the no 1, 2, 3, 4 and 5 seams. The no. 4 seam is most economically important and is split into no 4A, 4 Upper and 4 lower seams. |

Includes all the coalfields in the publication except the Kangwane and Soutpansberg coalfields

Source <http://www.saimm.co.za/Journal/v105n02p095.pdf>

3. COAL QUALITY INFORMATION OF THE COALFIELDS IN THE PUBLICATION

TABLE 2: COAL QUALITY INFORMATION OF THE COALFIELDS

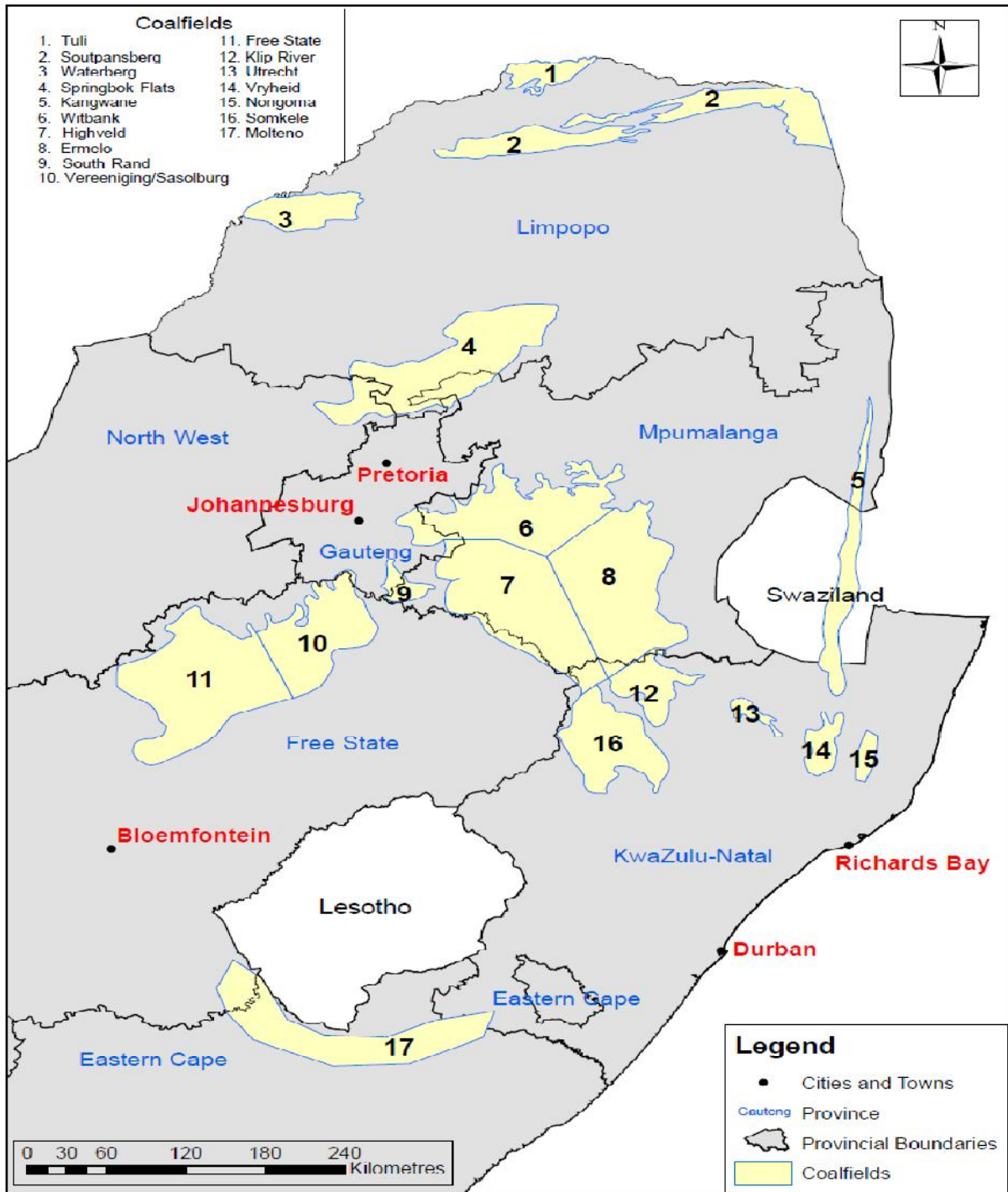
| | Coalfield | Coal quality |
|----|--------------|--|
| 1. | Soutpansberg | The coal is bright and high in vitrinite in developed areas, with the coal rank increasing to the east. The main seam, one of the two developed seams in the eastern area, is economically viable due to its coking properties and medium phosphorus content. |
| 2. | Witbank | In some areas of the coalfield, the No 1 seam is a source of high grade steam coal suitable for export. This seam frequently has low phosphorus content, enabling it to be mined separately as metallurgical feedstock. The no 2 seam contains the best quality coal. Mining is restricted to the lower 3.5m of the no 4 seam for domestic coal and power station feedstock. The no 5 seam is mined as a source of blend coking coal and metallurgical uses, especially in the central Witbank area where the coal quality is very high. |
| 3. | Highveld | The no 2 seam contains low grade bituminous coal with an ash content of 22-35% and a CV of 20-23 MJ/kg. A coal product of 27MJ/kg at yields of greater than 70% can be obtained in areas where the coal seam is of better quality and good washability characteristics. Although the no 4 seam generally mainly contains low grade bituminous coal with an ash content of 20-35% and a CV of 18-25 MJ/kg, the ash content can increase to 40% and the CV can drop to 15MJ/kg in the upper one to two meters of the seam. It can be as low as 21% with a CV of 23MJ/kg in areas where the seam is thicker in the lower three to four meters of the coal seam. The no 4 Upper seam generally contains low-grade bituminous coal with an ash content of approximately 25% and a CV of 22MJ/kg. The no 5 seam has a raw in-situ CV of greater than 25MJ/kg, with an ash content of 19% and volatile matter content of 32%. |
| 4. | Ermelo | The C lower seam is the most economically important seam because it is a source of export steam coal. The lower part of the C Upper seam is mined mainly to supplement the C lower seam. |
| 5. | Klip River | The coalfield contains bright coal with the rank ranging from bituminous to anthracite. Good coking coal has been produced in the central part in the past. |

| | | |
|----|---------------|--|
| 6. | Utrecht | This coalfield is comprised of the Eland, Alfred, Gus, Dundas, Coking and Targas seams. Due to the variation in rank from medium volatile bituminous coal to anthracitic coal, the lower Dundas seam is mined as a source of bituminous coal in the north-eastern part of the coalfield and anthracite in the southern part. However, the sulphur content can be high, in excess of 1%. The coal quality of the Alfred seam is better than the other seams in the coalfield particularly towards the bottom portion of the seam. The seam is generally high in ash and sulphur content but beneficiation can produce relatively high quality, low ash coal with low sulphur and phosphorus. |
| 7. | Vryheid | This coalfield hosts the same seams as the Utrecht except for the Bonas seam, which is inconsistently developed in the Vryheid coalfield. The Coking seam is high-grade bright coal with excellent coking properties at medium rank and commonly contains very low ash of between 7-8%. The lower Dundas seam is mined as coking or steam coal. Good quality coke has been produced from the Gus seam, where it is unaffected by dolerite intrusions and high quality anthracite where the seam has been metamorphosed. The Alfred seam is of low grade with average CV of 26–27 MJ/kg, ash content of 16–35% and poor coking properties. The Fritz seam is generally of fairly high grade but high sulphur content and is usually mined together with other seams in opencast operations. |
| 8. | Nongoma | The A coal zone has a thin A1 seam and a thicker A2 seam with raw ash values of 33-42%. Anthracite occurs in the lower A zone. The B zone consists of four seams with raw ash values of 25%. Anthracite occurs in the upper part of the B zone. |
| 9. | Molteno-Indwe | Although the Indwe, Guba and the Molteno seams are mainly of poor quality, they have economic potential. Analyses show that the Indwe and Guba seams have high ash content of 31-51% unwashed and between 26–27% when washed, high moisture content of 7-11%, low volatile matter of 7-12% and a CV of 23.9-25.9 MJ/kg. |

Includes all the coalfields in the publication except the Kangwane, Waterberg and Somkhele coalfields

Source <http://www.saimm.co.za/Journal/v105n02p095.pdf>

4 **FIGURE 1: SOUTH AFRICA'S COALFIELDS**



Source: Council for Geoscience

5. COLLIERIES PER MINING HOUSE

5.1 ANGLO AMERICAN SOUTH AFRICA

P O Box 615587
MARSHALLTOWN
2017

Tel: (011) 638 9111

Fax: (011) 638 3194

Website: <http://www.angloamerican.co.za>

Contact Person: pramchander@angloamerican.co.za or dallison@angloamerican.co.za

Listing: Johannesburg Stock Exchange and London Stock Exchange

Anglo American Thermal Coal owns and operates nine mines and has a 50 percent interest in the Mafube Colliery and Phola washing plant. Coal produced is sold locally and exported through the Richards Bay Coal Terminal (RBCT), in which Anglo has a 27 percent shareholding.

5.1.1 Anglo American Collieries

| Mine Code | Address and Other details | Seam Mined; Coal Type; Mining Method and Coal Preparation | Transportation of final product; Marketing; Remarks |
|-----------|--|---|---|
| 1439 | <p>Goedehoop Colliery Private Bag X410 VANDYKSDRIF 2245</p> <p>Tel: (013) 687 6306 Fax: (013) 687 5426 Email: rlobuser@coal.anglo.co.za Mine Manager: Erik Becht</p> <p>Coalfield WITBANK</p> <p>Farm, District Goedehoop 46 IS Haasfontein 28 IS Enkeldebosch 20IS MIDDELBURG</p> | <p>Seam Mined No 2 and 4 seams</p> <p>Product Bituminous Coal</p> <p>Mine method Opencast; Underground – Mechanised bord and pillar</p> <p>Coal Preparation Washing</p> | <p>Market Export and Local</p> <p>Transport Road and rail.</p> <p>Remarks Also known as Greenside 4 seam and Nooitgedacht 5 seam. Goedehoop Colliery merged with Bank Colliery in 2005. Includes the Hope, Vlaaklaagte, Simunye and South shafts. Coal is also mined from Vlaaklaagte and Haasfontein mini-pit operations.</p> |
| 0906 | <p>Greenside Colliery Private Bag X7275 WITBANK 1035</p> | <p>Seam Mined No 4 and 5 seams.</p> <p>Product</p> | <p>Market Local and export.</p> <p>Transport Road and rail.</p> |

| Mine Code | Address and Other details | Seam Mined; Coal Type; Mining Method and Coal Preparation | Transportation of final product; Marketing; Remarks |
|------------------|--|---|--|
| | <p>Tel: (013) 691 5000/5379/5145 Fax: (013) 691 9351 Email: thembakazi.ndabankulu@angloamerican.com Mine Manager: Mr Glaeser Frank Tel: 013 687 5306</p> <p><u>Coalfield</u> WITBANK</p> <p><u>Farm, District</u> Nooitgedacht 37 IS Groenfontein 331 JS WITBANK</p> | <p>Bituminous coal</p> <p><u>Mine method</u> Underground – Mechanised bord and pillar</p> <p><u>Coal Preparation</u> Washing</p> | <p><u>Remarks</u> Forms part of the South African Coal Estates complex (SACE) which includes Landau and Kleinkopje.</p> |
| 3728 | <p>Isibonelo Colliery Private Bag X701 TRICHARD 2300</p> <p>Tel: (013) 620 2700 Fax: (013) 620 2759 Email: rallen@coal.anglo.co.za Mine Manager: Clive Ritchie</p> <p><u>Coalfield</u> HIGHVELD</p> <p><u>Farm, District</u> Boschmanskraal 113 IS Brakfontein 117 IS Anngewys 81 JS Witbank 80 IS Alexander 102 IS Rietfontein 101 IS BETHAL</p> | <p><u>Seam Mined</u> No 4 seam</p> <p><u>Product</u> Bituminous coal</p> <p><u>Mine method</u> Opencast - Strip mining by dragline; Surface</p> <p><u>Coal Preparation</u> Crushing</p> | <p><u>Market</u> Local (Synthetic Fuels)</p> <p><u>Transport</u> Coal transported by conveyer belt to Sasol Synthetic Fuels.</p> |
| 4059 | <p>Kleinkopje Colliery P O Box 7275 WITBANK 1035</p> <p>Tel: (013) 691 5379 Fax: (013) 691 9101 Email: thembakazi.ndabankulu@angloamerican.co.za Mine Manager: Mr Martin Leslie Tel: (013) 693 0122</p> | <p><u>Seam Mined</u> No 1, 2 and 4 seams</p> <p><u>Product</u> Bituminous coal</p> <p><u>Mine method</u> Opencast – strip mining by dragline Underground – Bord and pillar</p> | <p><u>Market</u> Local (Eskom) and export</p> <p><u>Transport</u> Road and rail.</p> <p><u>Remarks</u> See Greenside Colliery's remarks.</p> |

| Mine Code | Address and Other details | Seam Mined; Coal Type; Mining Method and Coal Preparation | Transportation of final product; Marketing; Remarks |
|-----------|---|--|---|
| | <p>Coalfield WITBANK</p> <p>Farm, District Kleinkopje 15 IS WITBANK</p> | <p>Coal Preparation Washing</p> | |
| 0014 | <p>Kriel Colliery P O Box 27 KRIEL 2271</p> <p>Tel: (017) 617 1247 /1111 Fax: ((017) 617 1271 Email:rcarelse@anglocoal.co.za / gabs.mabalane@angloamerican.com Mine Manager: P P. Dewet</p> <p>Coalfield HIGHVELD</p> <p>Farm, District Driefontein 69 IS Onervacht 70 IS Roodepoort 40 IS Roodebloem 58 IS Frischgewaagd 60 IS Nooitgedacht 59 IS Vaalpan 68 IS Viervontein 61 IS Vlaklaagte 83 IS BETHAL</p> | <p>Seam Mined No 4 seam</p> <p>Product Bituminous coal</p> <p>Mine method Opencast – strip mining by dragline, truck and shovel Underground – Bord and pillar</p> <p>Coal Preparation Crushing</p> | <p>Market Local (Kriel Power Station)</p> <p>Transport Conveyer belt.</p> <p>Other Remarks 27 percent owned by Empowerment Consortium, Inyosi led by Pamodzi and Lithemba consortia. The BEE company is referred to as Anglo American Inyosi Coal.</p> |
| 2928 | <p>Landau Colliery Private Bag X7275 Witbank 1035</p> <p>Tel: (013) 691 5416 Fax: (013) 691 9351 Mine Manager: Mr Khumar Vijay Email: thembakazi.ndabankulu@angloamerican.com</p> <p>Coalfield WITBANK</p> <p>Farm, District Merwede 272 JS</p> | <p>Seam Mined No 1 and 2 seams</p> <p>Product Bituminous coal</p> <p>Mine method Opencast - strip mining by dragline</p> <p>Coal Preparation Washing</p> | <p>Market Local (include Eskom) and export</p> <p>Transport Road and rail</p> <p>Remarks Comprises four sections Kroomdraai open-cast, Excelsior, Schoongezicht mini-pit and Umlalazi mini-pit.</p> <p>Also see Greenside Colliery's remarks.</p> |

| Mine Code | Address and Other details | Seam Mined; Coal Type; Mining Method and Coal Preparation | Transportation of final product; Marketing; Remarks |
|-----------|--|---|--|
| | Kromdraai 279 JS Nooitgedacht 300 JS Schoongezicht 308 JS WITBANK | | |
| 4356 | <p>Mafube Colliery P.O. Box 3385 MIDDELBURG 1050</p> <p>Tel: (013) 246 9400 Fax: (013) 246 9543 Email: mankubula.mashilo@angloamerical.co.za</p> <p>Coalfield WITBANK</p> <p>Farm, District Springboklaagte 416 JS MIDDELBURG</p> | <p>Seam Mined No 2 seam</p> <p>Product Sub-bituminous coal</p> <p>Mine method Opencast – Truck and Shovel</p> <p>Coal Preparation Crushing</p> | <p>Market Local (Arnot Power Station)</p> <p>Transport Road</p> <p>Other Remarks 50:50 Joint Venture with Exxaro Resources.</p> |
| 1122 | <p>New Denmark Colliery Private Bag X2022 STANDERTON 2430</p> <p>Tel: (017) 749 0050 / 0031 Fax: (017) 749 0030 Email; derick.pienaar@angloamerican.com</p> <p>Coalfield HIGHVELD</p> <p>Farm, District Liebenberg 345 IS Mooifontein 342 IS Joubertvallei 337 IS Pretoriusvley 374 IS New Denmark 335 IS Racebult 352 IS Honiball 351 IS Slagkraal 353 IS Beginsel 357 IS Farm 550 IS Meyersvallei 354 IS Irene Dale 358 IS Eensgevonden 373 IS STANDERTON</p> | <p>Seam Mined No 4 seam</p> <p>Product Bituminous coal</p> <p>Mine method Underground – Bord and pillar and longwall</p> <p>Coal Preparation Crushing</p> | <p>Market Local (Tutuka Power Station)</p> <p>Transport Conveyer belt</p> <p>Remarks Comprises Central and Okhozini shafts.</p> |

| Mine Code | Address and Other details | Seam Mined; Coal Type; Mining Method and Coal Preparation | Transportation of final product; Marketing; Remarks |
|------------------|--|---|---|
| 1128 | <p>New Vaal Colliery Private Bag X414 THREE RIVERS 1935</p> <p>Tel: (016) 450 7200 /7211 Fax: 086 635 9570 Email: nsaayman@anglocoal.co.za</p> <p><u>Coalfield</u> VEREENIGING - SASOLBURG</p> <p><u>Farm, District</u> Maccavlei 121 Bankfontein 9 Zandfontein 259 Rietfontein 152 SASOLBURG</p> | <p><u>Seam Mined</u> Top, middle and bottom seams.</p> <p><u>Product</u> Bituminous coal</p> <p><u>Mine method</u> Opencast – strip mining by dragline</p> <p><u>Coal Preparation</u> Crushing, screening and washing</p> | <p><u>Market</u> Local (Lethabo Power Station).</p> <p><u>Transport</u> Conveyer belt</p> |
| 4753 | <p>Zibulo Colliery P O Box 7275 WITBANK 1035</p> <p>Tel: (013) 643 4400 Fax: (013) 643 4451 Enquiries Ockert Maritz Email: omaritz@anglocoal.co.za Mine Manager: Wally Tollemache</p> <p><u>Coalfield</u> WITBANK</p> <p><u>Farm, District</u> Zondagsfontein 253 IR WITBANK</p> | <p><u>Seam Mined</u> 2, 4 and 5 seams</p> <p><u>Product</u> Bituminous coal</p> <p><u>Mine method</u> Opencast and underground</p> | <p><u>Market</u> Local (Eskom) and export</p> <p><u>Other Remarks</u> 27 percent owned by Empowerment Consortium, Inyosi led by Pamodzi and Lithemba consortia. The BEE company is referred to as Anglo American Inyosi Coal.</p> |

5.2 ANKER COAL AND MINERAL HOLDINGS SA (PTY) LTD

PO Box 4929
MIDDELBURG
1050
Tel: (013) 282 6226
Fax: (013) 243 4767

E-mail: anker@mweb.co.za or patric@ankercoal.co.za

Anker Coal and Mineral Holdings own two operating mines – Elandsfontein Colliery and Golfview Minig. The company also has a number of exploration projects under development, located around Ermelo and Middelburg. Anker Coal exports all its production through the RBCT.

5.2.1 Anker Coal Collieries

| Mine Code | Address and Other details | Seam Mined; Coal Type; Mining Method and Coal Preparation | Transportation of final product; Marketing; Remarks |
|------------------|---|--|---|
| 2994 | <p>Elandsfontein Colliery PO Box 4929 Middleburg 1050</p> <p>Tel: (013) 659 9900 Fax: (013) 659 7104 Mine Manager: Chris Mynharbt</p> <p><u>Coalfield</u> WITBANK</p> <p><u>Farm, District</u> Elandsfontein 309 JS PTN 14 WITBANK</p> | <p><u>Seam Mined</u> No 1 and 2 seams</p> <p><u>Product</u> Bituminous coal</p> <p><u>Mine method</u> Opencast – Truck and shovel; underground</p> <p><u>Coal Preparation</u> Washing, heavy medium drum and cyclones, spirals and filter press.</p> | <p><u>Market</u> Export</p> <p><u>Transport</u> Road and rail dispatches. Exports through RBCT, Durban and Maputo</p> |
| 2765 | <p>Golfview Colliery PO Box 4929 Middleburg 1050</p> <p>Tel: (017) 801 1933 Fax: (017) 811 6333 Email: kiran@ankercoal.co.za</p> <p><u>Coalfield</u> ERMELO</p> <p><u>Farm, District</u> BurhmannsTafelkop 135 IT 7; Driehoek 273 IS; Spitskop 276 IS 64 & 31 ERMELO</p> | <p><u>Seam Mined</u> C-Upper and C-Lower seam</p> <p><u>Product</u> Bituminous coal</p> <p><u>Mine method</u> Underground – Conventional bord and pillar</p> <p>Opencast – Truck and shovel</p> <p><u>Coal Preparation.</u> Double drum and plant. Cyclones and spiral plant</p> | <p><u>Market</u> Export</p> <p><u>Transport</u> Road and rail. Exports through RBCT and Maputo</p> <p><u>Other Remarks</u> C-upper seam mined underground and C- lower by opencast method.</p> |

5.3 BHP BILLITON ENERGY COAL SOUTH AFRICA

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 JOHANNESBURG
 2001
 PO Box 61820
 MARSHALLTOWN
 2107

Tel: (011) 376 9111
 Fax: (011) 838 4716 / (011) 834 3290
 Note Controlling Company Ingwe Coal Corporation Ltd
 Website: www.bhpbilliton.com
 Contact Person: Mr. Andrew Modise

Listing: Australian Securities Exchange, London Stock Exchange, New York Stock Exchange and Johannesburg Stock Exchange

BHP Billiton Energy South Africa (Becsa), formerly known as Ingwe Collieries, is a wholly owned subsidiary of diversified mining group BHP Billiton. Becsa produces energy coal for the South African domestic and export markets from four coal-mining operations, Khutala Colliery, Klipspruit Colliery, Middelburg Colliery and Wolvekrans Colliery. Becsa's assets also include four processing plants

5.3.1 BHP Billiton SA Ltd Collieries

| Mine Code | Address and Other details | Seam Mined; Coal Type; Mining Method and Coal Preparation | Transportation of final product; Marketing; Remarks |
|-----------|--|--|---|
| 0793 | <p>Middelburg Mine Services (Pty) Ltd PO Box 1672 MIDDELBURG 1050</p> <p>Tel: (013) 689 4044 Fax: (013) 653 1571 Mine Manager: Alex Cronje Email: alex.cronje@bhpbilliton.com Contact: attie.jackson@bhpbilliton.com</p> <p>Coalfield WITBANK</p> <p>Farm, District Bankfontein 340 JS; Goedehoop 315 JS; Hartebeesfontein 339 JS; Klipfontein 316 JS; Sterkwater 317 JS MIDDELBURG</p> | <p>Seam Mined No 1, 2 and 4 seams</p> <p>Product Bituminous coal</p> <p>Mine method Opencast - Strip mining with draglines.</p> <p>Coal Preparation Crushing, screening and washing.</p> | <p>Market Domestic and Export.</p> <p>Transport Coal is transported from pit to the tip by trucks.</p> <p>Export coal transported to RBCT by rail. Domestic coal delivered by conveyor to Duvha Power station.</p> |
| 1691 | <p>Khutala Colliery PO Box 440 OGIES</p> | <p>Seam Mined No 2 ,4 and 5 seams</p> | <p>Market Domestic Kendal Power Station.</p> |

| Mine Code | Address and Other details | Seam Mined; Coal Type; Mining Method and Coal Preparation | Transportation of final product; Marketing; Remarks |
|-----------|--|--|---|
| | <p>2230</p> <p>Tel: (013) 648 5000 /5406 Fax: (013) 653 1724 Email: shantal.naidoo@bhpbilliton.com Mine Manager: Dean Hoare Email: hoare@bhpbilliton.com</p> <p><u>Coalfield</u> WITBANK</p> <p><u>Farm, District</u> Cologne 34 IS Smithfield 44 IS Klippoortjie 32 IS Leeuwfontein 219 IR Heuvelfontein 215 JR Schoongezicht 218 IR Zondagsvlei 9 IS Springboklaagte 33 IS WITBANK</p> | <p><u>Product</u> Bituminous coal</p> <p><u>Mine method</u> Underground – Mechanised bord and pillar Opencast – No 4 seam only</p> <p><u>Coal Preparation.</u> Crushing.</p> | <p><u>Transport</u> Conveyor belt.</p> |
| 3684 | <p><u>Klipspruit Colliery</u> Private Bag X15 LERAATSFONTEIN 1038</p> <p>Tel: (013) 643 3872 Fax: (013) 653 1753 Mine Manager: Thulani Ndlovu Email:thulani.ndlovu@bhpbilliton.com / nthabiseng.setadi@bhpbilliton.com</p> <p><u>Coalfield</u> WITBANK</p> <p><u>Farm, District</u> Klipfontein 3 IS WITBANK</p> | <p><u>Seam Mined</u> No 1,2,3,4L,4U,and 5 seams</p> <p><u>Product</u> Bituminous coal</p> <p><u>Mine method</u> Opencast – Truck and shovel combined with single dragline strip</p> <p><u>Coal Preparation.</u> Washing.</p> | <p><u>Market</u> Export.</p> <p><u>Transport</u> Final product transportation includes a stacker & declaimer system, rapid train load facility with coal delivered to RBCT.</p> |
| 4869 | <p><u>Wolvekrans Colliery</u> PO Box 1672 Middelburg 1050</p> <p>Tel: (013) 249 3131 Fax: (013) 249 3120 Mine Manager: Frans Knox Email: frans.knox@bhpbilliton.com</p> <p><u>Coalfield</u> WITBANK</p> | <p><u>Seam Mined</u> Seam 1, 2A, 2B, 2P, 2R, 4Uand 4L</p> <p><u>Product</u> Bituminous coal</p> <p><u>Mine method</u> Opencast</p> <p><u>Coal preparation</u> Crushing, screening and washing</p> | <p><u>Market</u> Local (Duvha power station) and exports (through RBCT)</p> <p><u>Transport</u> Rail and road.</p> |

| Mine Code | Address and Other details | Seam Mined; Coal Type; Mining Method and Coal Preparation | Transportation of final product; Marketing; Remarks |
|-----------|---|---|--|
| | <p><u>Farm, District</u> Driefontein 338 JS Speekfontein 336 JS Boschmanskrans 22 IS Wilverdiend 23 IS Enkeldebosch 20 IS Vlakraagte 21 IS Wolvekrans 17 IS Klippan 332 IS Naauwpoort 335 IS Kleinkopje 15 IS Steenkoolspruit 18 IS Vandyksdrift 19 IS Kromfontein 30 IS Middeldrift 43 IS Rietfontein 43 IS Vaalkranz 29 IS MIDDELBURG</p> | | |
| 4793 | <p>Phola Coal Processing Plant PO Box 645 Ogies 2230</p> <p>Tel: (013) 643 5614 Fax: 086 695 5278 Manager: Email: shirley.bruyns@pholacoal.co.za</p> <p><u>Coalfield</u> WITBANK</p> <p><u>Farm, District</u> Klipspruit 0 WITBANK</p> | <p><u>Product</u> Bituminous</p> <p><u>Mine method</u> Works, Surface</p> | <p><u>Market</u> Local and exports</p> <p><u>Transport</u> Rail and road</p> |
| 3328 | <p>BECSA Central Services Private Bag X15 Leraatsfontein 1035</p> <p>Tel: (011) 376 2202 Fax: (011) 838 7190 Email: trudie.brauns@bhpbilliton.com</p> <p><u>Coalfield</u> WITBANK</p> <p><u>Farm, District</u> MIDDELBURG</p> | <p><u>Product</u> Bituminous</p> <p><u>Mine method</u> Works, Surface</p> | <p><u>Market</u> Local and exports</p> <p><u>Transport</u> Rail and road</p> |

5.4 COAL OF AFRICA LIMITED (COAL)

2nd Floor, Gabba Building,
The Campus
57 Sloane Street,
Bryanston
2140

Tel: (011) 575 4363 / 7421

Fax: (011) 576 4363/ 7421

Website: <http://www.coalofafrica.com>

Contact Person Fernanda de Sousa / Willie Hattingh

Listing: Johannesburg Stock Exchange and London Stock Exchange

Coal of Africa (CoAL) is an emerging developer and producer of high-quality thermal and coking coal. CoAL has two operating collieries and two projects in early operations and development, as well as a valuable suite of exploration projects, enabling them to grow well into the future. With good access to rail and port infrastructure, CoAL can effectively service both domestic and international markets, providing a much-needed resource for economic growth and development for the country and the provinces in which they operate.

5.4.1 Coal of Africa Limited (CoAL) Collieries

| Mine Code | Address and Other details | Seam Mined; Coal Type; Mining Method and Coal Preparation | Transportation of final product; Marketing; Remarks |
|-----------|--|--|---|
| 4589 | <p>Vuna / Zonnebloem Colliery PO Box 3890 Rivonia 2196 Tel: (072) 738 7856 Fax: (046) 624 8670 Mine Manager: Piet Van Zyl Email: Pieter.VanZyl@coalofafrica.co.za</p> <p>Coalfield WITBANK</p> <p>Farm, District Zonnebloem 396 JS 0 MIDDELBURG</p> | <p>Seam Mined No 1 and 2 seams</p> <p>Product Bituminous coal</p> <p>Mine method Opencast mining to an approximate maximum depth of 30 metres, low stripping ratios</p> | <p>Market Production feeds the washplant at Woestalleen Colliery</p> <p>Transport Road</p> <p>Other Remarks Forty nine percent Joint venture with Vuna Coal Holdings (Pty) Ltd. Coal of Africa is the technical partner.</p> |
| 1963 | <p>Woestalleen Colliery PO Box 1639 Middelburg 1050</p> <p>Tel: (011) 575 7421 Fax: (011) 576 7421</p> | <p>Seam Mined No 1 and 2 seams</p> <p>Product Bituminous coal</p> <p>Mine method Opencast</p> | <p>Market Local</p> <p>Transport Road / Rail</p> |

| Mine Code | Address and Other details | Seam Mined; Coal Type; Mining Method and Coal Preparation | Transportation of final product; Marketing; Remarks |
|-----------|--|--|---|
| | <p>Mine Manager: Piet van Zyl Email:: Pieter.vanzyl@coalofafrica.co.za / fernanda.desousa@coalofafrica.co.za</p> <p><u>Coalfield</u> WITBANK</p> <p><u>Farm, District</u> Woestalleen 477 JS REM 0 MIDDELBURG</p> | | |
| 4617 | <p><u>Mooiplaats Colliery</u> Postnet Suite X1335 Private Bag X9013 Ermelo 2350</p> <p>Tel: (011) 605 2783 Fax: (086) 541 5245 Email: grace.mathebula@coalofafrica.co.za Mine Manager: Pieter Boshoff Email: Pieter.Boshoff@coalofafrica.co.za</p> <p><u>Coalfield</u> ERMELO</p> <p><u>Farm, District</u> Mooiplaats 290 IT Portion 1 & 9 ERMELO</p> | <p><u>Seam Mined</u> B seam</p> <p><u>Product</u> Bituminous coal</p> <p><u>Mining Method</u> Underground single seam mining</p> | <p><u>Market</u> Local and export</p> <p><u>Transport</u> Road.</p> <p><u>Remarks</u> Final product trucked to Umlabu for the Export Market or to Camden for Eskom. Currently mothballed (under care and maintenance).</p> |
| 4752 | <p><u>Vele Coal Mine</u> PO Box 468 Musina 0900</p> <p>Tel: (083) 979 3477 Mine Manager: Ben Nolan Email:: Ben.Nolan@coalofafrica.co.za Contact Person: Mr Masilo Matima Email:: masilo.matima@coalofafrica.co.za</p> <p><u>Coalfield</u> SOUTPANSBERG</p> <p><u>Farm, District</u> Bergen op Zoom 124 MS 0; Overvlakte 125 MS 0; Voorspoed 836 MS 0 SOUTPANSBERG</p> | <p><u>Seam Mined</u> Top, middle and bottom seams</p> <p><u>Product</u> Thermal coal Semi soft coking coal</p> <p><u>Mining Method</u> Opencast and underground</p> | <p><u>Market</u> Local</p> <p><u>Transport</u> Road.</p> <p><u>Remarks</u> Final product trucked to Musina for sale to Mooiplaats.</p> |

5.5 CONTINENTAL COAL

SOUTH AFRICAN SUBSIDIARY MASHALA RESOURCES (PTY) LIMITED

9th Floor Fredman Towers
13 Fredman Drive
Sandton
2196

P O Box 787646
Sandton
2146
Tel: (011) 881 1420
Fax: (011) 881 1423
Email: admin@conticoal.com
Website: www.conticoal.com
Coal Contact: Person Haroon Ali

Listing: Australian Securities Exchange, London Aim and Johannesburg Stock Exchange

Continental Coal Limited (ASX CCC) is an established South African thermal coal production, development and exploration company. Continental has a portfolio of producing and advanced coal projects located in South Africa's major coal fields. Following the commencement of production at the Vlakvarkfontein coal mine in May 2010, and its acquisition of Mashala Resources in October 2010, Continental is targeting production from its portfolio of predominantly export thermal coal mines of 10 Mtpa ROM by 2015.

5.5.1 Continental Coal Collieries

| Mine Code | Address and Other details | Seam Mined; Coal Type; Mining Method and Coal Preparation | Transportation of final product; Marketing; Remarks |
|-----------|---|---|---|
| 4661 | <p>Ferreira Coal Mine – Mashala Resource PO Box 2118 Ermelo 2350</p> <p>Tel: (017) 801 1306 Fax: (017) 801 1399 Enquiries T F Klopper Email: thomask@conticoal.com</p> <p>Coalfield ERMELO</p> <p>Farm, District Witbank 262 It Portions 19 & 25 ERMELO</p> | <p>Seam Mined B and C seams</p> <p>Product Bituminous coal</p> <p>Mine method Opencast truck and shovel roll over</p> <p>Coal Preparation Washing</p> | <p>Market Export (through RBCT).</p> <p>Transport Rail.</p> |
| 4946 | <p>Penumbra Coal Mining (Proprietary) Limited P O Box 2118</p> | <p>Seam Mined A seam</p> | <p>Market Local.</p> |

| Mine Code | Address and Other details | Seam Mined; Coal Type; Mining Method and Coal Preparation | Transportation of final product; Marketing; Remarks |
|------------------|---|---|---|
| | <p>Ermelo 2350</p> <p>Tel: (017) 801 1306 Fax: (017) 801 1300 /1399 Enquiries T F Klopper Email: thomask@continental.com</p> <p><u>Coalfield</u> ERMELO</p> <p><u>Farm, District</u> Witbank 262 IT Langverwacht 293 IT Ptns Rietspruit 417 IS ERMELO</p> | <p><u>Product</u> Bituminous</p> <p><u>Mine method</u> Underground merchandised bord and pillar using continuous miners</p> <p><u>Coal Preparation</u> Washing</p> | <p><u>Transport</u> Road and rail dispatches</p> |
| 1046 | <p>Ntshovelo Mining Resources – Vlakvarkfontein Colliery PO Box 78764 Sandton City 2146</p> <p>Tel: (011) 881 1420 Fax: (011) 881 1423 Email: theuns@conticoal.com</p> <p><u>Coalfield</u> WITBANK</p> <p><u>Farm, District</u> Vlakvarkfontein 213 IR 3 5 13 NKANGALA</p> | <p><u>Seam Mined</u> No 2 and 4 seams</p> <p><u>Product</u> Bituminous</p> <p><u>Mine method</u> Opencast</p> <p><u>Coal Preparation</u> Washing</p> | <p><u>Market</u> Local.</p> <p><u>Transport</u> Road and rail dispatches.</p> |

5.6 EXXARO RESOURCES LTD

P O Box 9229
 PRETORIA
 0001

Tel: (012) 307 5000

Fax: (012) 323 3400

Website: <http://www.exxaro.com>

Coal Contact Person: mxolisi.mgojo@exxaro.com or wim.diedericks@exxaro.com or johan.myburgh@exxaro.com

Listing: Johannesburg Stock Exchange

Exxaro Resources manages eight coal mines that produce about 47 million tons per annum (Mtpa) coal. It is the second largest South African coal producer. All coal produced is supplied to the national power utility, Eskom and municipal power stations.

5.6.1 Exxaro Resources Ltd Collieries

| Mine Code | Address and Other details | Seam Mined; Coal Type; Mining Method and Coal Preparation | Transportation of final product; Marketing; Remarks |
|-----------|---|--|--|
| 0013 | <p>Arnot Colliery Private Bag X3 Rietkuil 1097</p> <p>Tel: (013) 297 8030 Fax: 086 623 7971 Email: phumzile.mahlangu@exxaro.com Business manager: Chris Ballot Email: chris.ballot@exxaro.com</p> <p>Coalfield WITBANK</p> <p>Farm, District Blesbokfontein 487 JS; Blesboklaagte 488 JS; Bosmansspruit 459 JS; Braamspruit 465 JS; Grootlaagte 449 JS; Klippan 452 JS; Kopermijn 491 JS; MIDDELBURG</p> | <p>Seam Mined No 2 seam</p> <p>Product Bituminous coal</p> <p>Mine method Underground – mechanized bord and pillar</p> <p>Coal Preparation Washing</p> | <p>Market Local.</p> <p>Transport Conveyer belt to Arnot power station</p> <p>Remarks The mine is contracted to supply Eskom’s Arnot power station until 2030</p> |
| 0252 | <p>Grootgeluk Coal Mine PO Box 178</p> | <p>Product Bituminous Coal</p> | <p>Market Local (Eskom, Matimba</p> |

| Mine Code | Address and Other details | Seam Mined; Coal Type; Mining Method and Coal Preparation | Transportation of final product; Marketing; Remarks |
|-----------|---|---|--|
| | <p>LEPHALALE 0555</p> <p>Tel: (014) 763 900/ 9100 /9105 Fax: (014) 763 9304 / 9108 Mine Manager: Mervin Govender EMail: mervin.govender@exxaro.com / Wim.diedericks@exxaro.com / dewald.pretorius@exxaro.com</p> <p>Coalfield WATERBERG</p> <p>Farm, District Hieromtrent 460 LQ Enkelbult 462 LQ Turflakte 463 LQ Daarby 458 LQ Leeuwdrift 312 LQ Grootegeluk 459 LQ ELLISRAS</p> | <p>Coking coal Metallurgical Coal Char</p> <p>Mine method Opencast - truck and shovel operation</p> <p>Coal Preparation Crushing and washing, heavy medium and drum, and cyclone plants as well as spirals</p> | <p>Power Station) and export (through RBCT).</p> <p>Transport Road and rail.</p> |
| 2895 | <p>Exxaro Coal Leeuwpan Colliery P O Box 2353 DELMAS 2210</p> <p>Tel: (013) 665 7613 Fax: (01)3 665 7630 Mine Manager: Johan Pretorius Email: johan.pretorius@exxaro.com / melissa.dewaal@exxaro.com</p> <p>Coalfield WITBANK</p> <p>Farm, District Kenbar 257 IR Witklip 229 IR DELMAS</p> | <p>Seam Mined No 2, 4 and 5 seams.</p> <p>Product Bituminous coal</p> <p>Mine method Opencast operation using modified terrace configurations and truck and shovel operations</p> <p>Coal Preparation Jigging technology for the top coal layer (seam 4 upper) and dense medium separation for the bottom coal layer (seam 4 lower) Crushing and screening</p> | <p>Market Local.</p> <p>Transport Road and rail.</p> <p>Remarks The mine uses a jig to treat top coal for the Eskom market</p> |
| 4301 | <p>Inyanda Coal Mine P O Box 2023 WITBANK 1034</p> <p>Tel: (013) 652 8537</p> | <p>Product Bituminous coal</p> <p>Mine method Opencast operation</p> | <p>Market Export (through RBCT).</p> <p>Transport Rail.</p> |

| Mine Code | Address and Other details | Seam Mined; Coal Type; Mining Method and Coal Preparation | Transportation of final product; Marketing; Remarks |
|---------------------------------|---|--|---|
| | Fax: (013) 301 5037 / (012) 307 5441 Contact Person: Tienie Oosthuizen Email: tienie.oosthuizen@exxaro.com <u>Coalfield</u> WITBANK <u>Farm, District</u> Kalbasfontein 284 JS Ptn 21 0 WITBANK | <u>Coal Preparation</u> Washing | |
| 2310, 2355, 2402 | <u>Matla Colliery 1,2,3</u> Private Bag X5006 KRIEL 2271 Tel: (017) 616 2270 / 2217/2310 Fax: (013) 616 2223/ 2322 /2205 Email: caren.eckard@exxaro.com Mine Manager: Ferdie Smith Email: ferdie.smith@exxaro.com <u>Coalfield</u> WITBANK <u>Farm, District</u> Haasfontein 95 IS BETHAL | <u>Seam Mined</u> No 2, 4 and 5 seams <u>Product</u> Bituminous coal <u>Mine method</u> Underground – Bord and pillar mechanised with CM's and shortwall <u>Coal Preparation</u> Crushing and screening | <u>Market</u> Local (Matla Power Station). <u>Transport</u> Conveyer belt <u>Remarks.</u> This mining complex comprises three mines. Matla is an Eskom-tied colliery |
| 6272 | <u>North Block Complex</u> P O Box 321 BELFAST 1100 Tel: (013) 253 1151 /7300 Fax: (013) 253 1153 /7360 Mine Manager: Simon Mkhonza Email: simon.mkhonza@exxaro.com <u>Coalfield</u> WITBANK <u>Farm, District</u> Paardeplaats 380 JT PTN 1-5 BELFAST | <u>Seam Mined</u> No 2 seam <u>Product</u> Bituminous coal <u>Mine method</u> Open-pit strip mining methods and underground with continuous rehabilitation <u>Coal Preparation</u> Crushing and screening | <u>Market</u> Local and export. <u>Transport</u> Road and rail. <u>Remarks.</u> NBC Coal consists of the Glisa Coal Mine and Strathrae Coal Mine and the EersTel:ingsfontein and Belfast coal projects. |
| 0446 | <u>New Clydesdale Colliery</u> Private Bag X888 | <u>Seam Mined</u> | <u>Market</u> Export. |

| Mine Code | Address and Other details | Seam Mined; Coal Type; Mining Method and Coal Preparation | Transportation of final product; Marketing; Remarks |
|-----------|---|---|--|
| | <p>VANDYKSDRIFT 2245</p> <p>Tel: (013) 687 9502 /6907 Fax: (013) 687 9505 Email: kim.martin@exxaro.com Mine Manager: Danie Stapelberg Email: danie.stapelberg@exxaro.com</p> <p>Coalfield WITBANK</p> <p>Farm, District Middeldrift 42 IS Vaalkrans 29 IS Rietfontein 431 JS Haasfontein 28 IS Diepsruit 41 IS WITBANK</p> | <p>No 1 and 2 seams</p> <p>Product Bituminous coal</p> <p>Mine method Opencast and underground (bord and pillar) methods</p> <p>Coal Preparation Washing</p> | <p>Transport Rail.</p> <p>Remarks. Mine owned by Eyesizwe Coal</p> |
| 1375 | <p>Tshikondeni Coal mine PO Box 50 Tshikondeni 0959</p> <p>Tel: (015) 966 5000 / 5134 Fax: (015) 966 5100 / 5199 Email: evodia.nemukombame@exxaro.com Mine Manager: Chris Silver Email: chris.silver@exxaro.com</p> <p>Coalfield SOUTPANSBERG</p> <p>Farm, District Tshikondeni 88 MT THOHOYANDOU</p> | <p>Seam Mined Top seam</p> <p>Product Metallurgical coking coal</p> <p>Mine method Underground, conventional bord and pillar extraction methods are used.</p> <p>Coal Preparation Crushing and washing, cyclone and spirals, froth flotation.</p> | <p>Market Local (Metallurgical).</p> <p>Transport Road.</p> |
| 4391 | <p>Exxaro Reductants PO Box 9229 Pretoria 0001</p> <p>Tel: 083 609 1029 Fax: (012) 307 3864 Mine Manager:</p> | <p>Product Bituminous coal</p> <p>Mine method Surface (Works)</p> | <p>Market Local</p> <p>Transport Road.</p> |

| Mine Code | Address and Other details | Seam Mined; Coal Type; Mining Method and Coal Preparation | Transportation of final product; Marketing; Remarks |
|-----------|--|--|---|
| | Email: jaco.vandyk@exxaro.com <u>Coalfield</u> WATERBERG <u>Farm, District</u> Daarby 458 LQ ELLISRAS | | |
| 0167 | Coastal Coal – Durnacol Coal Mine PO 703 Durnacol 3082 Tel: (034) 622 5932 Fax: 086 204 1474 Email: mariete.delange@exxaro.com <u>Coalfield</u> KLIP RIVER <u>Farm, District</u> Boyskraal 7728; Cornwall 8420; Droogmynkee 4093; East Heselton 6783; Heilbron 42811; Kliprug 4092; Sewango 8404; Sweetwaters 8748; DANHAUSER | <u>Product</u> Bituminous coal <u>Mine method</u> Underground | <u>Market</u> Local and export <u>Transport</u> Road and rail. |

5.7 EYETHU COAL (PTY) LTD AND IYANGA COAL (PTY) LTD

PO Box 71986
 Die Wilgers
 0041
 Tel: (012) 807 0229
 Fax: (086) 525 1259
 Contact: terryg@eyethucoal.com

Eyethu Coal (Pty) Ltd is a black empowered company. Eyethu's main objective is to establish a combined black empowered mining venture. Eyethu is also involved in procuring coal discard dumps and the beneficiation thereof to supply Eskom. Their sister company, Iyanga Mining (Pty) Ltd, operates other collieries that are funded by Eyethu Coal. Eyethu's assets include a washing plant.

5.7.1 Eyethu Coal Collieries

| Mine Code | Address and Other details | Seam Mined; Coal Type; Mining Method and Coal Preparation | Transportation of final product; Marketing; Remarks |
|------------------|--|---|---|
| 4956 | <p>Leeuwpoot Colliery PO Box 71986 Die Wilgers 0041</p> <p>Tel: (012) 807 0229 Fax: (086) 525 1259 Enquiries: Mike Elliott</p> <p>Coalfield WITBANK</p> <p>Farm, District Leeuwpoot 283 Js WITBANK</p> | <p>Seam Mined No 2 seam</p> <p>Product Bituminous coal</p> <p>Mine method Opencast – Truck and shovel</p> <p>Coal Preparation Crushing.</p> | <p>Market Sold to coal distributor Mcphail.</p> |
| 3412 | <p>Mooifontein Colliery PO Box 71986 Die Wilgers 0041</p> <p>Tel: (012) 807 0229 Fax: (086) 525 1259 Email: terryg@eyethucoal.com</p> <p>Coalfield WITBANK</p> <p>Farm, District Speekfontein 336 JS 4 Rem Ext EMALAHLENI</p> | <p>Product Bituminous</p> <p>Mine method Opencast; Surface</p> | <p>Market Local (Eskom).</p> |

| Mine Code | Address and Other details | Seam Mined; Coal Type; Mining Method and Coal Preparation | Transportation of final product; Marketing; Remarks |
|-----------|---|--|--|
| 5036 | <p>TNDB Colliery PO Box 71986 Die Wilgers 0041</p> <p>Tel: (012) 807 0229 Fax: 086 525 1259 Email: terryg@eyethucoal.com</p> <p><u>Coalfield</u> WITBANK</p> <p><u>Farm, District</u> Farm 336 JS Suurwater WITBANK</p> | <p><u>Product</u> Bituminous</p> <p><u>Mine method</u> Opencast</p> | <p><u>Market</u> Export.</p> <p><u>Transport</u> Rail.</p> |
| 4792 | <p>Welgelegen Coal PO Box 439 WITBANK 1035</p> <p>Tel: (013) 656 1544 / 1375 Fax: (013) 656 1937 Email: pieter@eyethucoal.com</p> <p><u>Coalfield</u> WITBANK</p> <p><u>Farm, District</u> Welgelegen 221 IR WITBANK</p> | <p><u>Product</u> Bituminous coal</p> <p><u>Mine method</u> Opencast</p> | <p><u>Market</u> Local</p> <p><u>Remarks</u> Operated by Iyanga Mining (Pty) Ltd</p> |

5.8 SASOL MINING (PTY) LTD

Private Bag X1015
 Secunda 2302
 South Africa
 Tel: 017 614 1111
 Fax: 017 614 5036
 Website: <http://www.sasol.com>
 Managing director: Hermann Wenhold
 Email: hermann.wenhold@sasol.com
 Communication manager: Bhutiza Letsie
 Tel: 017 614 3133
 Email: bhutiza.letsie@sasol.com

Listing: Johannesburg Stock Exchange and New York Stock Exchange

Sasol Mining produces about 39 Mt of coal a year, mostly for gasification feedstock and utilities coal for their Coal to Liquid (CTL) complexes at Secunda and Sasolburg. Its main operations comprise Sigma Mooikraal operation near Sasolburg and Bosjesspruit, Brandspruit, Middelbult, Syferfontein and Twistdraai Export operations at Secunda.

5.8.1 Sasol Mining (Pty) Ltd Collieries

| Mine Code | Address and Other details | Seam Mined; Coal Type; Mining Method and Coal Preparation | Transportation of final product; Marketing; Remarks |
|-----------|--|--|--|
| 0584 | <p>Sigma Colliery P O Box 32 Sasolburg 1947</p> <p>Tel: (016) 970 6469/6470 Fax: (016) 973 3810(011) 522 0818 Email: marina.viljoenmm@sasol.com Mine Manager: Lars Steyn Email: lars.steyn@sasol.com</p> <p>Coalfield VEREENIGING-SASOLBURG</p> <p>Farm, District 29 Adjoining Farms 0; Boschbank 12; Weltevreden 379; Saltberry Plain 137 SASOLBURG</p> | <p>Seam Mined No 2A lower, 2B middle and 3B top seams</p> <p>Product Bituminous Coal</p> <p>Mine method Opencast; Underground – bord and pillar with CM's for pillar extraction</p> <p>Coal Preparation Crushing and dry screening</p> | <p>Market Local (Supplies Sasol Infrachem)</p> <p>Transport Conveyer belt</p> <p>Remarks Plans to sell to Eskom.</p> |
| 1475 | <p>Brandspruit Mine Private Bag X1015 SECUNDA 2302</p> | <p>Product Bituminous Coal</p> <p>Mine method Underground - Bord and</p> | <p>Market Local (Supplies Sasol Synfuels).</p> <p>Transport</p> |

| Mine Code | Address and Other details | Seam Mined; Coal Type; Mining Method and Coal Preparation | Transportation of final product; Marketing; Remarks |
|-----------|--|--|--|
| | <p>Tel: (017) 614 3089 Fax: (017) 614 5588/(011) 219 0265 Email: dina.hilligenn@sasol.com Mine Manager: Lucky Mabuza Email: lucky.mabuza@sasol.com</p> <p><u>Coalfield</u> HIGHVELD</p> <p><u>Farm, District</u> Brandspruit 318 IS sub 3 HIGHVELD RIDGE</p> | <p>pillar</p> <p><u>Coal Preparation</u> Crushing</p> | <p>Conveyer belt</p> <p><u>Remarks.</u> To be replaced by Impumelelo mine, with first production expected in October 2014.</p> |
| 1596 | <p>Bosjesspruit Mine</p> <p>Private Bag X1015 SECUNDA 2302</p> <p>Tel: (017) 614 3089/1500 Fax: (017) 614 1945/(011) 219 0265 Email: dina.hilligenn@sasol.com Mine Manager: Gerrit van der Westhuyzen Email: gerrit.vanderwesthuyzen@sasol.com</p> <p><u>Coalfield</u> HIGHVELD</p> <p><u>Farm, District</u> Bosjesspruit 291 IS Sub 32; Genadesfontein 334 IS HIGHVELD RIDGE</p> | <p><u>Product</u> Bituminous Coal</p> <p><u>Mine method</u> Underground - Bord and pillar</p> <p><u>Coal Preparation</u> Crushing</p> | <p><u>Market</u> Local (Supplies Sasol Synfuels)</p> <p><u>Transport</u> Conveyer belt</p> |
| 1496 | <p>Middelbult Mine</p> <p>Private Bag 1015 SECUNDA 2302</p> <p>Tel: (017) 614 3089/6900 Fax: (017) 614 6944/(011) 219 0265 Email: dina.hilligenn@sasol.com Mine Manager: Kobus Louw Email: Kobus.louw@sasol.com</p> <p><u>Coalfield</u> HIGHVELD</p> <p><u>Farm, District</u> Middelbult 284 IS sub 7 HIGHVELD RIDGE</p> | <p><u>Seam Mined</u> No 4 seam.</p> <p><u>Product</u> Bituminous coal</p> <p><u>Mine method</u> Underground - Bord and pillar</p> <p><u>Coal Preparation</u> No processing</p> | <p><u>Market</u> Local.</p> <p><u>Transport</u> Transported by conveyer belt to external customer.</p> |

| Mine Code | Address and Other details | Seam Mined; Coal Type; Mining Method and Coal Preparation | Transportation of final product; Marketing; Remarks |
|-----------|--|--|--|
| 2543 | <p>Syferfontein Colliery Private Bag 1015 SECUNDA 2302</p> <p>Tel: (017) 613 3089/5203 Fax: (017) 613 5267/(011) 219 0265 Email: dina.hilligenn@sasol.com Mine Manager: Leon Joseph Email: leon.joseph@sasol.com</p> <p>Coalfield HIGHVELD</p> <p>Farm, District Tweedraai 139 Zwakfontein 120 IS Riversdale 119 Syferfontein 115 Van Schalkwyksrust 118 IS HIGHVELD RIDGE</p> | <p>Seam Mined No 4 – lower seam</p> <p>Product Bituminous coal</p> <p>Mine method Underground – Bord and pillar</p> <p>Coal Preparation No processing</p> | <p>Market Local (Sasol Synfuels).</p> <p>Transport Conveyer belt.</p> |
| 1488 | <p>Twistdraai Mine Private Bag X1015 SECUNDA 2302</p> <p>Tel: (017) 614 3089/7000 Fax: (017) 614 4380/(011) 219 0265 Email: dina.hilligenn@sasol.com Mine Manager: T-Man Mphokane Email: T-man.mphokane@sasol.com</p> <p>Coalfield HIGHVELD</p> <p>Farm, District Twistdraai 285 IS Goedehoop 290 IS sub 34 HIGHVED RIDGE</p> | <p>Seam Mined No 3 and 4 lower seams</p> <p>Product Bituminous coal</p> <p>Mine method Underground – Bord and pillar</p> <p>Coal Preparation Plant consist of a three 500 t/h module primary plant for producing export products and a two module secondary plant for producing Sasol Synfuels factory feed products and discards.</p> | <p>Market Local (Sasol Synfuels) and export.</p> <p>Transport Conveyer belt.</p> <p>Remarks. Low ash steam coal for export markets and middlings products for Synthetic Fuels. Includes the new Thubelisha shaft.</p> |
| 5043 | <p>Twistdraai Export Plant Private Bag X1015 Secunda 2302</p> <p>Tel: (017) 614 3230 Fax: (011) 522 9206 Email: dina.hilligenn@sasol.com</p> | <p>Product Bituminous coal</p> <p>Mine method Opencast</p> | <p>Remarks. Works</p> |

| Mine Code | Address and Other details | Seam Mined; Coal Type; Mining Method and Coal Preparation | Transportation of final product; Marketing; Remarks |
|-----------|---|---|--|
| | <p><u>Coalfield</u> HIGHVELD</p> <p><u>Farm, District</u> Twistdraai 285 IS; Brandspruit 318 IS 3</p> | | |
| 3768 | <p>Engineering and Operational Services Private Bag 1015 Secunda 2302</p> <p>Contact Person: Dina Hilligenn Tel: 017 614 5074 /3179 Fax: 011 522 5479 /5279 Email: dina.hilligen@sasol.com Manager: L van Staden</p> <p><u>Coalfield</u> HIGHVELD</p> <p><u>Farm, District</u> Brandspruit 318 IS Restand 3 HIGHVED RIDGE</p> | | <p><u>Remarks.</u> Central Workshop /Mining Services for Sasol Mining's operations. Also known as Central Workshop / OTS/ Mining Services</p> |
| 3826 | <p>Surface Services Private Bag 1015 Secunda 2302</p> <p>Contact Person: Dina Hilligenn Tel: 017 614 5074 Fax: 011 522 5479 Email: dina.hilligen@sasol.com Manager: A Barnard</p> <p><u>Coalfield</u> HIGHVELD</p> <p><u>Farm, District</u> Branspruit 318 I S Restant 3 HIGHVED RIDGE</p> | <p><u>Product</u> Bituminous coal</p> <p><u>Mine method</u> Surface</p> | <p><u>Market</u> Local (Sasol Synfuels).</p> <p><u>Transport</u> Conveyer belt.</p> |
| 5043 | <p>Twistdraai Export Plant Private Bag 1015 Secunda 2302</p> <p>Contact Person: Dina Hilligenn Tel: 017 614 3230 Fax: 011 522 9206 Email: dina.hilligen@sasol.com</p> | <p><u>Product</u> Bituminous coal</p> <p><u>Mine method</u> Surface</p> | <p><u>Market</u> Export</p> <p><u>Transport</u> Rail</p> |

| Mine Code | Address and Other details | Seam Mined; Coal Type; Mining Method and Coal Preparation | Transportation of final product; Marketing; Remarks |
|-----------|--|--|---|
| | Manager: A Barnard <u>Coalfield</u> HIGHVELD <u>Farm, District</u> Twistdraai 285 IS; Brandspruit 318 IS 3 HIGHVED RIDGE | | |
| 1460 | <u>Sasol C S Plant</u> Private Bag 1015 Secunda 2302 Contact Person: Dina Hilligenn Tel: 017 614 3089 Fax: (011) 219 0265 Email: dina.hilligen@sasol.com <u>Coalfield</u> HIGHVELD <u>Farm, District</u> Brandspruit 318 IS 3; Twistdraai 285 IS; HIGHVELD RIDGE | <u>Product</u> Bituminous coal <u>Mine method</u> Underground | <u>Market</u> Export <u>Transport</u> Rail |

5.9 OPTIMUM COAL HOLDINGS LTD

36 Fricker Road, Illovo, 2196
P O Box 411333
Craighall
2024
Johannesburg
South Africa

Tel: 011 447 3858
Fax: 011 447 3894
Website: <http://www.optimumcoal.co.za>

Listing: Johannesburg Stock Exchange

The Optimum coal operations include Optimum Collieries, a large opencast and underground mining complex comprising four coal production areas, and Koornfontein mines. Both operations are in the Mpumalanga coalfield.

4.9.1 Optimum Coal Holdings Ltd Collieries

| Mine Code | Address and Other details | Seam Mined; Coal Type; Mining Method and Coal Preparation | Transportation of final product; Marketing; Remarks |
|-----------|--|--|---|
| 0474 | <p>Optimum Coal Mine Private Bag X1201 PULLENSHOPE 1096</p> <p>Tel: (013) 296 5111 Fax: (013) 296 5108 Email: magdel.richards@optimumcoal.com</p> <p>Coalfield WITBANK</p> <p>Farm, District Boschmanskop 154 IS Pullenshope 155 IS Optimus 480 IS Driepan 156 IS Zevenfontein 484 JS MIDDELBURG</p> | <p>Seam Mined No 2 and 4 seams</p> <p>Product Bituminous Coal</p> <p>Mine method Opencast (strip mining with large walking draglines) and underground complex</p> <p>Coal Preparation Crushing, screening and double stage washing</p> | <p>Market Local (Hendrina Power Station) and export.</p> <p>Transport Road and rail.</p> <p>Remarks. Optimum collieries are large scale opencast and underground complexes.</p> |
| 0048 | <p>Koornfontein Mines Private Bag X402 BLINKPAN 2250 Tel: (013) 295 5287</p> | <p>Seam Mined No 2 & 4 seam</p> <p>Product</p> | <p>Market Export (through RBCT).</p> <p>Transport</p> |

| Mine Code | Address and Other details | Seam Mined; Coal Type; Mining Method and Coal Preparation | Transportation of final product; Marketing; Remarks |
|-----------|--|---|---|
| | <p>Fax: (013) 653 1888 Email: karline.wepener@optimumcoal.com Mine Manager: Piet Steyn Email: piet.steyn@optimumcoal.com</p> <p><u>Coalfield</u> WITBANK</p> <p><u>Farm, District</u> Geluk 26 IS Vlakraagte 21 IS Broodsneyersplaats 25 IS MIDDELBURG</p> | <p>Bituminous Coal</p> <p><u>Mine method</u> Underground – Mechanised bord and pillar</p> <p><u>Coal Preparation</u> Crushing</p> | <p>Rail.</p> <p><u>Remarks</u> Koorfontein Mines is an underground complex. Sales through Gloria and Blinkpan sections.</p> |

5.10 SHANDUKA COAL

P O Box 78902
Sandton
2146

Tel: (011) 459 2339
Fax: (011) 684 1670
Contact Person: Shawn Blankfield
E-mail: shawn.blankfield@shandukacoal.com

Shanduka Group, a black owned investment holding company owns 50.1 percent of Shanduka coal, which operates seven coal mines. Coal produced by these mines is sold to the domestic and export markets. Shanduka Coal exports coal through the Richards Bay Coal Terminal (RBCT).

5.10.1 Shanduka Coal / Shanduka Resources collieries

| Mine Code | Address and Other details | Seam Mined; Coal Type; Mining Method and Coal Preparation | Transportation of final product; Marketing; Remarks |
|-----------|--|--|--|
| 4218 | <p>Graspan Colliery Suite MW113 Private Bag X1838 MIDDEBURG 1050</p> <p>Tel: 013 241 2500 Fax: 086 667 4924 Mine Manager: Mark Canney Email: mark.canney@shandukacoal.com / zacharycoetzee@shandukacoal.com</p> <p>Coalfield WITBANK</p> <p>Farm, District Bankfontein 216 IR 0 Leeuwfontein 219 IR 0 Middelburg 0 Rietfontein 0 Uitkyk 0 Welgelegen 221 IR 0 MIDDELBURG</p> | <p>Seam Mined No 1, 2, 3 and 4 seams</p> <p>Product Bituminous (Metallurgical coal)</p> <p>Mine method Opencast and underground operation</p> | <p>Transport Road and rail</p> |
| 4218 | <p>Leeuwfontein Mine Suite MW 113 Private Bag X1838 MIDDELBURG 1050</p> <p>Tel: 013 244 8046 Fax: 086 666 5548 Mine Manager: Seth Moagi</p> | <p>Product Bituminous coal</p> <p>Mine method Underground – Bord and pillar; and opencast</p> | <p>Products and Market Local and export</p> |

| Mine Code | Address and Other details | Seam Mined; Coal Type; Mining Method and Coal Preparation | Transportation of final product; Marketing; Remarks |
|-----------|---|---|--|
| | Email: seth.moagi@shandukacoal.com <u>Coalfield</u> WITBANK <u>Farm, District</u> Bankfontein 216 IR Leeuwfontein 219 IR Uitkyk, Welgelegen 221 IR WITBANK | | |
| 4218 | <u>Bankfontein Colliery</u> Suite MW 113 Private Bag X1838 MIDDELBURG 1050 Tel: 013 244 8046 Fax: 086 666 5548 Mine Manager: Seth Moagi Email: seth.moagi@shandukacoal.com <u>Coalfield</u> WITBANK <u>Farm, District</u> Bankfontein 216 IR WITBANK | <u>Seam Mined</u> No 2 seam <u>Product</u> Bituminous coal <u>Mine method</u> Opencast <u>Coal Processing</u> Crushing, washing, cyclones | <u>Products and Market</u> Export and Domestic <u>Transport</u> Road and rail |
| 4218 | <u>Lakeside Colliery</u> Suite MW 113 Private Bag X1838 MIDDELBURG 1050 Tel: 013 244 8046 Fax: 086 666 5548 Mine Manager: Seth Moagi Email: seth.moagi@shandukacoal.com <u>Coalfield</u> WITBANK <u>Farm, District</u> Welgelegen 221 IR DELMAS | <u>Seam Mined</u> No 2 seam <u>Product</u> Bituminous coal <u>Mine method</u> Underground – Bord and pillar and opencast <u>Coal Preparation</u> Crushing, washing, drum, and cyclones | <u>Products and Market</u> Export and Domestic <u>Transport</u> Road and rail |
| 4218 | <u>Middelburg Townlands</u> Suite MW 113 Private Bag X1838 MIDDELBURG 1050 | <u>Seam Mined</u> No 1 and 2 seams <u>Product</u> Bituminous coal | <u>Products and Market</u> Eskom, Export and Domestic <u>Transport</u> |

| Mine Code | Address and Other details | Seam Mined; Coal Type; Mining Method and Coal Preparation | Transportation of final product; Marketing; Remarks |
|-----------|--|---|---|
| | <p>Tel: 013 244 0830 Mine Manager: Dewald Vogel Email: dewald.vogel@shandukacoal.com</p> <p><u>Coalfield</u> WITBANK</p> <p><u>Farm, District</u> Middelburg Town Townlands 287 JS MIDDELBURG</p> | <p><u>Mine method</u> Opencast operation</p> <p><u>Coal Preparation</u> Crushing, washing drum, cyclones and spirals</p> | <p>Road Hauling</p> |
| 0053 | <p>Springlake Colliery PO Box 43 DUNDEE 3000</p> <p>Tel: 034 621 6000/9 Fax: 034 621 6035 Email: gill.nel@shandukacoal.com Mine Manager: Chris Goosen Email: chris.goosen@shandukacoal.com</p> <p><u>Coalfield</u> KLIP RIVER</p> <p><u>Farm, District</u> Lenteplaas 14432, Spiesdale GLENCOE</p> | <p><u>Seam Mined</u> Bottom Seam</p> <p><u>Product</u> Anthracite and bituminous coal</p> <p><u>Mine method</u> Underground – Mechanised bord and pillar and opencast operation</p> <p><u>Coal Preparation</u> Washing</p> | <p><u>Market</u> Export</p> <p><u>Transport</u> Road and rail dispatches. Exports through RBCT.</p> |
| 0433 | <p>Natal Cambrian Colliery PO Box 43 Dundee 3000</p> <p>Tel: 034 621 6000 Fax: 034 621 6035 Email: gill.nel@shandukacoal.com</p> <p><u>Coalfield</u> KLIP RIVER</p> <p><u>Farm, District</u> Ballengeich 3299 Kilbarchan 2969 Mooikrantz 9562 NEWCASTLE</p> | <p><u>Product</u> Bituminous coal</p> <p><u>Mine method</u> Underground and opencast operation</p> | <p><u>Remarks</u> The mine itself is not operating. Springlake Colliery uses the railway siding at this colliery.</p> |

5.11 TOTAL COAL SOUTH AFRICA (PTY) LTD (TCSA)

PO Box 2344
SAXONWORLD
2196

Tel: (011) 441 6800
Fax: (011) 880 0245
Contact Person: Julian Nagy
Email: Julian.nagy@coal.total.co.za

Total Coal South Africa is a wholly owned subsidiary of French multinational energy company Total. The company has been active in South Africa since the early 1970's. TCSA's Black Economic Empowerment (BEE) partner is Mmakau Mining. The BEE's company investments in Total's mining operations are held by an empowerment vehicle Mmakau Coal and Mmakau Mining. Mmakau Mining holds a 51 percent and TCSA the remaining 49 percent. Mmakau Coal has a 26 percent shareholding in Forzando mine. Coal produced is exported through the RBCT.

5.11.1 Total Coal South Africa (Pty) Ltd Collieries

| Mine Code | Address and Other details | Seam Mined; Coal Type; Mining Method and Coal Preparation | Transportation of final product; Marketing; Remarks |
|-----------|---|---|--|
| 2996 | <p>Forzando Coal Mines (Pty) Ltd PO Box 2344 SAXONWORLD 2132</p> <p>Tel: 011 441 6800/ 6876 Fax: (011) 880 0245 / 017 647 8023 Email: sharlene.naidoo@coal.total.co.za Mine Manager: George Ponni Email: george.ponni@coal.total.co.za</p> <p>Coalfield HIGHVELD</p> <p>Farm, District Bankpan 225 IS Weltevreden 193 IS BETHAL</p> | <p>Seam Mined No 4 lower seam</p> <p>Product Bituminous coal</p> <p>Mine method Underground – Bord and pillar</p> <p>Coal Preparation Heavy medium separation plant</p> | <p>Market Marketing by Total Coal International, Paris and Total Energy Service Hong Kong</p> <p>Remarks Ownership 74 % TCSA; 26 % Mmakau Mining</p> <p>Mmakau Mining P O Box 2236 Houghton 2041 Tel: +27 11 268 6780 Fax: +27 11 268 0186 Email: info@mmakau.co.za</p> |
| 3308 | <p>Dorstfontein Coal Mines PO Box 2344 SAXONWORLD 2132</p> <p>Tel: (011) 441 6800 Fax: (011) 880 0245 Mine Manager: Sonwabo Debedu</p> | <p>Seam Mined No 2 seam</p> <p>Product Bituminous coal</p> <p>Mine method Underground – Bord</p> | <p>Market Metallurgical inland sales.</p> <p>Transport Private siding</p> |

| Mine Code | Address and Other details | Seam Mined; Coal Type; Mining Method and Coal Preparation | Transportation of final product; Marketing; Remarks |
|-----------|---|---|--|
| | Email: sonwabo.debedu@coal.total.co.za Contact: sharlene.naidoo@coal.total.co.za <u>Coalfield</u> HIGHVELD <u>Farm, District</u> Dorstfontein 71 IS BETHAL | and pillar <u>Coal Preparation</u> Heavy medium separation plant | |
| 5020 | Tumelo Coal Mines (PTY) LTD PO Box 2344 Saxonwold 2132 Tel: (011) 441 6800 Fax: (011) 880 0245 Mine Manager: Email: sharlene.naidoo@coal.total.co.za <u>Coalfield</u> WITBANK <u>Farm, District</u> Boschmanskop 154 IS MIDDELBURG | <u>Seam Mined</u> No 2 seam <u>Product</u> Bituminous coal <u>Mine method</u> Underground | <u>Market</u> Local and export <u>Transport</u> Rail and road |

5.12 UMCEBO MINING (PTY) LTD

Suite MW113
 Private Bag X1838
 MIDDELBURG
 1050
 Tel: (013) 244 8000
 Fax: 086 626 6229
 Coal Contact Person Neil Pillay
 Tel: (013) 244 8024

Umcebo Mining is Black Economic Empowerment Company incorporated in 2003. The company has six mines and a stand-alone wash plant. Umcebo is 100 percent owned by Shanduka Coal. Umcebo produces thermal coal for both the domestic and export markets. At the end of 2011, Glencore International plc, the world's largest commodities trader acquired an effective 43.66 percent equity interest in Umcebo Mining.

5.12.1 Umcebo Mining (Pty) LTD Collieries

| Mine Code | Address and Other details | Seam Mined; Coal Type; Mining Method and Coal Preparation | Transportation of final product; Marketing; Remarks |
|-----------|---|--|---|
| 3071 | <p>Doornrug Colliery Suite MW113 Private Bag X1838 MIDDELBURG 1050</p> <p>Tel: 013 244 8000 /8135 Fax: 086 626 6229 Contact Person: Annalize Leonard Email: annalize.leonard@shandukacoal.com Mine Manager: Siphon Mkhathshwa Email: siphon@umcebomining.co.za</p> <p><u>Coalfield</u> WITBANK</p> <p><u>Farm, District</u> Doornrug 302 JS 11; Rondebult 303 JS Rem Ext WITBANK</p> | <p><u>Seam Mined</u> No 1 seam</p> <p><u>Product</u> Bituminous coal</p> <p><u>Mine method</u> Opencast and underground operations</p> <p><u>Coal Preparation</u> Crush and screen on site. Washplant on site (Toll washing)</p> | <p><u>Products and Market</u> Eskom, Export and Domestic</p> <p><u>Transport</u> Road Hauling</p> |
| 3416 | <p>Klippan Colliery Suite MW113 Private Bag X1838 MIDDELBURG</p> <p>1050</p> <p>Tel: 013 244 8000 / 8135 Fax: 086 626 6229</p> | <p><u>Seam Mined</u> Seam 1 and 2</p> <p><u>Product</u> Bituminous coal</p> <p><u>Mine method</u></p> | <p><u>Products and Market</u> Eskom, Export and Domestic</p> <p><u>Transport</u> Road Hauling</p> |

| Mine Code | Address and Other details | Seam Mined; Coal Type; Mining Method and Coal Preparation | Transportation of final product; Marketing; Remarks |
|-----------|--|---|---|
| | <p>Mine Manager: Neil Jones Email: suleiman.ebrahim@shandukacoal.com Contact Person: Annalize Leonard</p> <p><u>Coalfield</u> WITBANK</p> <p><u>Farm, District</u> Grootpan 456 JS; Kaalplaats 453 JS; Klippan 452 JS; Wonderfontein 428 JS CAROLINA</p> | <p>Opencast operation; Surface</p> <p><u>Coal Preparation</u> Crush and screen on site. Beneficiation at Strathae</p> | |
| 3947 | <p>Kleinfontein Colliery Suite MV113 Private Bag X1838 Middelburg 1050</p> <p>Tel: 013 244 8000 / 8135 Fax: 086 626 6229 Mine Manager: C J Leonard Contact Person : Annalize Leonard Email: Annalize.Leonard@shandukacoal.com</p> <p><u>Coalfield</u> WITBANK</p> <p><u>Farm, District</u> Kleinfontein 49 IS WITBANK</p> | <p><u>Seam Mined</u> Seam 2 and 4</p> <p><u>Product</u> Bituminous coal</p> <p><u>Mine method</u> Opencast</p> <p><u>Coal Preparation</u> Crush and Screen on site Washplant on site</p> | <p><u>Products and Market</u> Eskom, Export and Domestic</p> <p><u>Transport</u> Road Hauling</p> |
| 4335 | <p>Middelkraal Colliery Suite MV113 Private Bag X1838 Middelburg 1050</p> <p>Tel: 013 244 8000 / 8135 Fax: 086 626 6229 Mine Manager: Marius vd Berg Email: baat@umcebomining.co.za Contact Person : Annalize Leonard Email: Annalize.Leonard@shandukacoal.com</p> <p><u>Coalfield</u> WITBANK</p> <p><u>Farm, District</u> Middelkraal 50 IS MIDDELBURG</p> | <p><u>Seam Mined</u> Seam 2</p> <p><u>Product</u> Bituminous coal</p> <p><u>Mine method</u> Opencast</p> <p><u>Coal Preparation</u> Crush and Screen on site Washplant on site Airplant on site</p> | <p><u>Products and Market</u> Eskom</p> <p><u>Transport</u> Road Hauling</p> |

| Mine Code | Address and Other details | Seam Mined; Coal Type; Mining Method and Coal Preparation | Transportation of final product; Marketing; Remarks |
|-----------|--|--|---|
| 1727 | <p>Strathrae Colliery</p> <p>Tel: 013 244 8000 / 8135 Fax: 086 626 6229 Mine Manager: N Jones Tel: 079 694 6055 Contact Person : Annalize Leonard Email: Annalize.Leonard@shandukacoal.com</p> <p>Coalfield WITBANK</p> <p>Farm, District Strathrae 496 JS CAROLINA</p> | <p>Seam Mined Seam 1 and 2</p> <p>Product Bituminous coal</p> <p>Mine method Opencast, surface</p> <p>Coal Preparation Crush and Screen on site Washplant on site</p> | <p>Products and Market Eskom, Export and Domestic</p> <p>Transport Road Hauling</p> |
| 4533 | <p>Norwesco Colliery</p> <p>Suite MV113 Private Bag X1838 Middelburg 1050</p> <p>Tel: 013 244 8135 Fax: 086 626 6229 Mine Manager: Siphon Mkhathshwa Tel:082 337 1880 Contact Person : Annalize Leonard Email: Annalize.Leonard@shandukacoal.com</p> <p>Coalfield WITBANK</p> <p>Farm, District Brakfontein 264 IR 5 DELMAS</p> | <p>Product Bituminous coal</p> <p>Mine method Opencast, surface</p> | <p>Remarks Under care and maintenance</p> |
| 5032 | <p>Wonderfontein – Umsimbithi</p> <p>Private Bag X1838 Middelburg 1050</p> <p>Tel: (013) 244 8000 Fax: 086 556 1101 Email: kalala.kapay@shandakacoal.com</p> <p>Coalfield WITBANK</p> <p>Farm, District Johan Steele 0; Generaalsdraai 423 JS;</p> | <p>Product Bituminous</p> <p>Mine method Underground</p> | <p>Market Local (Merchants)</p> <p>Transport Road / Rail</p> |

| Mine Code | Address and Other details | Seam Mined; Coal Type; Mining Method and Coal Preparation | Transportation of final product; Marketing; Remarks |
|-----------|--|---|---|
| | De Jager 0; Van Wyk 0; Bezuidenhout 0 BELFAST | | |

5.13 GLENCORE XSTRATA PLC

Baarerstattstrasse 3
 CH-6340 Baar
 Switzerland
 Tel: +41 41 709 2000
 Fax: +41 41 709 3000
 Email: info@glencorexstrata.com
 Website: <http://www.glencorexstrata.com>

Listing: London Stock Exchange, Hong Kong Stock Exchange, Johannesburg Stock Exchange

Glencore Xstrata has interests in eight operations, most of which are located within the two major coalfields – Witbank and Ermelo. Seventy five percent of these operations are underground bord and pillar mines, and the remaining 25 percent are opencast.

5.13.1 Xstrata Plc collieries

| Mine Code | Address and Other details | Seam Mined; Coal Type; Mining Method and Coal Preparation | Transportation of final product; Marketing; Remarks |
|-----------|---|--|--|
| 1272 | <p>Arthur Taylor Colliery - (ATC) Private Bag X7265 WITBANK 1035</p> <p>Tel: (013) 653 5466 /35 /5368 Fax: (013) 690 5068 /5131 Email: gnkosi@xstratacoal.co.za Mine Manager: Henry Underhay</p> <p>Coalfield WITBANK</p> <p>Farm, District Blesbokfontein 31 IS WITBANK</p> | <p>Seam Mined No 2 and 4 seams</p> <p>Product Bituminous Coal</p> <p>Mine method Underground</p> <p>Coal Preparation Washing Drums, cyclones</p> | <p>Market Local (Eskom)</p> |
| 2659 | <p>Arthur Taylor Opencast Mine - (ATCOM) Private Bag X7265 WITBANK 1035</p> <p>Tel: (013) 653 5466 /35 /5368 Fax: (013) 690 5761 Mine Manager: J Nel Contact Thembani Mathye Email: tmathye@xstratacoal.co.za / gnkosi@xstratacoal.co.za</p> | <p>Product Bituminous Coal</p> <p>Mine method Opencast with draglines</p> <p>Coal Preparation Washing Drums, cyclones and spirals</p> | <p>Market Export (through Richards Bay).</p> <p>Transport Transported by rail.</p> |

| Mine Code | Address and Other details | Seam Mined; Coal Type; Mining Method and Coal Preparation | Transportation of final product; Marketing; Remarks |
|-----------|--|--|--|
| | <p>Coalfield WITBANK</p> <p>Farm, District Kromfontein 30 IS WITBANK</p> | | |
| 3198 | <p>Twefontein Colliery Private Bag X16 LERAATSFONTEIN 1038</p> <p>Tel: (013) 686 4331 /3300 /3338 Fax:086 621 0644 / 013 686 3359 Email: trakometsi@xstaratacoal.co.za Mine Manager: J Du Plessis</p> <p>Coalfield WITBANK</p> <p>Farm, District Twefontein 13 IS WITBANK</p> | <p>Seam Mined No 2 and 4 seams.</p> <p>Product Bituminous coal</p> <p>Mine method Underground – Mechanised bord and pillar extraction as well as opencast operation.</p> <p>Coal Preparation Washing and screening</p> | <p>Market Local and export (through RBCT).</p> <p>Transport Road and rail.</p> |
| 3599 | <p>Goedgevonden Colliery Private Bag X17 LERAATSFONTEIN 1038</p> <p>Tel: (013) 686 4331 /4307 Fax:086 621 0644 / 013 643 4341 Contact Person L Mathebula Email: lmathebula@xstratacoal.co.za / ssnxumalo@xstratacoal.co.za Mine Manager: M Mobwano</p> <p>Coalfield WITBANK</p> <p>Farm, District Blesbokfontein 31 IS Boschmansfontein 12 IS Goedgevonden 10 IS Groenfontein 331 IS Kleinkopje 15 IS Kleinzuikerbosplaat 5 IS Klipplaatjie 32 IS Klippan 111 IS Klippoortjie 32 IS Ogiesfontein 4 IS</p> | <p>Seam Mined No 2, 4 and 5 seams.</p> <p>Product Bituminous coal</p> <p>Mine method Underground</p> <p>Coal Preparation Toll-washing and screening</p> | <p>Market Local and export (through RBCT).</p> <p>Transport Road and rail.</p> |

| Mine Code | Address and Other details | Seam Mined; Coal Type; Mining Method and Coal Preparation | Transportation of final product; Marketing; Remarks |
|-----------|---|--|---|
| | Tweefontein 13 IS Zaaiwater 11 IS WITBANK | | |
| 0503 | <p>Phoenix Colliery Private Bag X7265 WITBANK 1035</p> <p>Tel: (013) 687 8304 Fax: (013) 690 5068 Email: gnkosi@xstratacoal.co.za</p> <p>Coalfield WITBANK</p> <p>Farm, District Klipplaat 14 IS; Kromfontein 30 IS; Middeldrift 42 IS; Steenkoolspruit 18 IS BETHAL</p> | <p>Product Bituminous coal</p> <p>Mine method Underground – Bord and pillar</p> | <p>Market Local and export (through RBCT).</p> <p>Transport Road and rail.</p> |
| 0598 | <p>South Witbank Colliery Private Bag X16 LERAATSFONTEIN 1038</p> <p>Tel: 013 686 3250 /3323 Fax: 013 686 7065 Email: linda.kotta@glencore.co.za Mine Mananger: D Z Mashiyi</p> <p>Coalfield WITBANK</p> <p>Farm, District Blesbokfontein 38 IS & 31 IS Frischgewaagd 60 IS Klippoortjie 32 IS OGIES</p> | <p>Seam Mined No 4 seam</p> <p>Product Bituminous coal</p> <p>Mine method Underground – Mechanised bord and pillar</p> <p>Coal Processing Washing Drum, cyclones, spirals.</p> | <p>Market Local and export (through RBCT).</p> <p>Transport Road and rail.</p> <p>Remarks Also forms part of the Tweefontein Division.</p> |
| 0633 | <p>Tavistock Colliery Private Bag X7265 WITBANK 1035</p> <p>Tel: 013 686 4368 / 3331</p> | <p>Seam Mined No 4 seam</p> <p>Product</p> | <p>Market Local (include Eskom) and export (through RBCT).</p> <p>Transport</p> |

| Mine Code | Address and Other details | Seam Mined; Coal Type; Mining Method and Coal Preparation | Transportation of final product; Marketing; Remarks |
|-----------|--|--|--|
| | Fax: 013 690 5042 Email: linda.kotta@xstratacoal.co.za Mine Mananger D Z Mashiyi <u>Coalfield</u> WITBANK <u>Farm, District</u> Blesbokfontein 31 & 38 IS Hartebeesfontein 39 IS Roodepoort 40 IS BETHAL | Bituminous coal <u>Mine method</u> Underground – Mechanised bord and pillar <u>Coal Processing</u> Washing Larcodem, cyclones | Road and rail. |
| 4400 | <u>Onverdacht Colliery</u> Private Bag X7294 Suite 309 Ogies 2226 Tel: 082 885 8581 Fax: 086 689 1374 Mine Manager: Email: tiger.vwyk@genet.za.com <u>Coalfield</u> WITBANK <u>Farm, District</u> Kaalplaats 453 JS 5; Springbokpan Ptn 1 BELFAST | <u>Seam Mined</u> No 2 and 4 seam <u>Product</u> Bituminous coal <u>Mine method</u> Opencast <u>Coal Processing</u> Air Plant | <u>Market</u> Local <u>Transport</u> Road |

5.14 SUDOR COAL (PTY) LTD

42 French Street
Witbank
1035

Tel: (013) 690 3316
Fax: (013) 690 3322
Contact Person Marché Phillips
Email: mphillips@sudorcoal.co.za

Sudor Coal is a junior coal producer operating three coal mines in the Mpumalanga province. The company produces coal for both the domestic and export markets.

5.14.1 Sudor Coal's Collieries

| Mine Code | Address and Other details | Seam Mined; Coal Type; Mining Method and Coal Preparation | Transportation of final product; Marketing; Remarks |
|-----------|---|--|---|
| 4652 | <p>Elandsfontein Colliery Private Bag X7260 Witbank 1035</p> <p>Tel: (013) 690 3316 Fax: (013) 690 3322 Contact Person Marché Phillips Email: mphillips@sudorcoal.co.za</p> <p><u>Coalfield</u> WITBANK</p> <p><u>Farm, District</u> Elandsfontein 75 IS BETHAL</p> | <p><u>Product</u> Bituminous</p> <p><u>Mine method</u> Opencast ; underground</p> | <p><u>Market</u> Local</p> <p><u>Transport</u> Road</p> |
| 3799 | <p>Halfgewonnen Colliery Private Bag X7260 WITBANK 1035</p> <p>Tel: (013) 690 3316 Fax: (013) 690 3322 Contact Person Marché Phillips Email: mphillips@sudorcoal.co.za Mine Manager: Faan Meyer</p> <p><u>Coalfield</u> WITBANK</p> <p><u>Farm, District</u> Halfgewonnen 190 IS BETHAL</p> | <p><u>Product</u> Bituminous Coal</p> <p><u>Mine method</u> Underground pillar</p> <p><u>Coal Preparation</u> Crushing, screening and washing</p> | <p><u>Market</u> Local and export</p> <p><u>Transport</u> Road.</p> |

| Mine Code | Address and Other details | Seam Mined; Coal Type; Mining Method and Coal Preparation | Transportation of final product; Marketing; Remarks |
|-----------|---|--|--|
| 4734 | <p>Weltevreden Coal Postnet P152 Private Bag X7260 WITBANK 1035</p> <p>Tel: (013) 690 3316 Fax: (013) 690 3322 Contact Person Marché Phillips Email: mphillips@sudorcoal.co.za</p> <p><u>Coalfield</u> WITBANK</p> <p><u>Farm, District</u> Dunbar 189 IS 1 3 5 6 7; Kafferstad 195 IS Various; Weltevreden 193 IS Various BETHAL</p> | <p><u>Product</u> Bituminous coal</p> <p><u>Mine method</u> Opencast r</p> <p><u>Coal Processing</u> Crushing, screening and washing</p> | <p><u>Market</u> Local and export</p> <p><u>Transport</u> Road</p> |

5.15 MSOBO COAL (PTY) LTD

P O Box 166
Breyten
2330

Msobo Coal is a division of black economic empowerment company, Imbawula Group. Msobo Coal was created in 2011 with a business plan to acquire established coal mines near Ermelo. Msobo successfully negotiated the purchase of two existing coal mines from Xstrata. The company successfully acquired Spitzkop and Tselentis coal mines from Xstrata Coal South effective January 2012.

5.15.1 Msobo Coal (Pty) Ltd's Collieries

| Mine Code | Address and Other details | Seam Mined; Coal Type; Mining Method and Coal Preparation | Transportation of final product; Marketing; Remarks |
|-----------|--|--|--|
| 0602 | <p>Spitzkop Colliery PO Box 166 BREYTON 2330</p> <p>Tel: (017) 861 8451 /8400 /8003 Fax: 086 6201 209 Contact Person: Desree de Villiers Email: desree.devilliers@msobo.co.za / retha.vandenneever@msobo.co.za</p> <p>Coalfield ERMELO</p> <p>Farm, District Klipstapel 203 JS Voorslag 274 IS Waterval 244 IS Spitzkop 276 IS Kafferspruit 274 IS ERMELO</p> | <p>Seam Mined B and C seams</p> <p>Product Bituminous coal</p> <p>Mine method Underground (Mechanised bord and pillar) and opencast</p> <p>Coal Preparation Washing and screening.</p> | <p>Market Local</p> <p>Transport Road and rail</p> |
| 1087 | <p>Tselentis Colliery PO Box 166 BREYTON 2330</p> <p>Tel: (017) 861 3691/8400 / 8003 Fax:086 620 1209 Contact Person: Desree de Villiers Email: desree.devilliers@msobo.co.za / retha.vandenneever@msobo.co.za Mine Manager: M Flynn</p> | <p>Seam Mined B and C seams.</p> <p>Product Bituminous coal</p> <p>Mine method Opencast – Truck and shovel, rollover method</p> <p>Coal processing Washing and screening</p> | <p>Market Local and export (through RBCT)</p> <p>Transport Road and rail</p> |

| Mine Code | Address and Other details | Seam Mined; Coal Type; Mining Method and Coal Preparation | Transportation of final product; Marketing; Remarks |
|-----------|---|---|---|
| | <p><u>Coalfield</u> ERMELO</p> <p><u>Farm, District</u> Bothasrust 211 IS Klipstapel 243 IS Lilliput 83 IT Smutsoog 214 IS Witbak 82 IT Mooiplaats 86 IT Goedverwachting 81 IT ERMELO</p> | | |

5.16 KEATON ENERGY HOLDINGS LIMITED

The Braes, Eland House
No 3 Eaton Road
Bryanston
2012

Postnet Suite 464
Private Bag X51
Bryanston
2012

Tel: 011 317 1700
Fax: 011 463 4759
Website: www.keatonenergy.co.za
General contact: info@keatonenergy.co.za

Keaton Energy is a coal exploration and development company. It's first producing short-life cash generative, Klip Colliery in Ogies has been mined out. The company has recently brought its Vanggatfontein project, in Delmas, into production. Late in 2011, Keaton Energy completed its acquisition of Leeuw Mining and Exploration (Proprietary) Ltd. With this acquisition came the Vaalkrantz Colliery in Vryheid, which produces anthracite both for domestic consumption and export, together with a suite of attractive exploration projects, which now augment Keaton Energy's Sterkfontein Project in the Highveld Coalfield. Keaton is aiming to produce two million tons of saleable a year in the medium term, increasing to five million tons over a longer trajectory.

5.16.1 Keaton Energy Holdings Limited's Collieries

| Mine Code | Address and Other details | Seam Mined; Coal Type; Mining Method and Coal Preparation | Transportation of final product; Marketing; Remarks |
|-----------|--|---|--|
| 3730 | <p>Vaalkrantz Anthracite Colliery Postnet Suite 464 Private Bag X51 Bryanston 2021</p> <p>Tel: 011 317 1700 Fax: 011 463 4759 Mine Manager: Xolani Khanyezi Contact Person: Francois Blom Email: francois@keatonenergy.co.za / svanzyl@keatonenergy.co.za</p> <p>Coalfield VRYHEID</p> <p>Farm, District Rustplaas EXT 4,5 and 6 HLOBANE</p> | <p>Seam Mined Alfred, Gus seams</p> <p>Product Anthracite</p> <p>Mine method Underground -Conventional mechanized bord and pillar and scraper mining operation</p> <p>Coal Processing High medium double stage cyclone washing.</p> | <p>Market Export and local</p> <p>Transport Road and rail</p> <p>Remarks 26 % held by JPI</p> |

| Mine Code | Address and Other details | Seam Mined; Coal Type; Mining Method and Coal Preparation | Transportation of final product; Marketing; Remarks |
|-----------|---|--|--|
| 4983 | <p>Vangatfontein Colliery Postnet Suite 464 Private Bag X51 Bryanston 2021</p> <p>Tel: 011 317 1700 Fax: 011 463 4759 Mine Manager: Isak Nkosi Contact Person Francois Blom Email: francois@keatonenergy.co.za</p> <p><u>Coalfield</u> WITBANK</p> <p><u>Farm, District</u> Vangatfontein 251 IR Ptns Rietkuil 249 IR 4 Brakfontein 264 IR 29 Brakfontein 277 IR DELMAS</p> | <p><u>Seam Mined</u> 2, 4 and 5 seams</p> <p><u>Product</u> Bituminous coal</p> <p><u>Mine method</u> Opencast</p> | <p><u>Market</u> Local</p> <p><u>Transport</u> Road</p> <p><u>Remarks</u> 26 % owned by Rutendo Mining (Pty) Ltd</p> |

5.17 SOUTH AFRICAN COAL MINING HOLDINGS (SACMH)

P O Box 55190
Northlands
2116

Tel: (+27) 10 001 9460
Website: www.sacmh.co.za

Listing: Johannesburg Stock Exchange

South African Coal Mining Holdings Limited (SACMH) is a junior coal producer with operations in the Ermelo / Breyten district of the Mpumalanga Province. Having developed a reputation as specialist in thin seam open cast and underground coal mining, SACMH produces and processes coal products for international markets. SACMH listed on the JSE on 20 August 2007. The company exports coal through the RBCT.

4.17.1 Keaton Energy Holdings Limited's Collieries

| Mine Code | Address and Other details | Seam Mined; Coal Type; Mining Method and Coal Preparation | Transportation of final product; Marketing; Remarks |
|-----------|---|--|---|
| 3415 | <p>Ilanga Coal Mines Private Bag X9013 Postnet Suite 1717 ERMELO 2350</p> <p>Tel: (017) 001 7500 Fax: 086 750 4116 Contact Person: Marcel Jansen van Vuuren Email: marcelv@sacmh.co.za</p> <p>Coalfield WITBANK</p> <p>Farm, District Kleinfontein 49 IS MIDDELBURG</p> | <p>Seam Mined No 2 seam</p> <p>Product Bituminous coal</p> <p>Mine method Opencast operation</p> <p>Coal Preparation Washing</p> | <p>Market Local and export (through RBCT)</p> <p>Transport Road and rail</p> |
| 3771 | <p>Umlabu Colliery PO Box 630 Emerlo 2350</p> <p>Tel: (017) 861 9910 Fax: 086 750 4116 Mine Manager: Mr Phillip Buckle Email: phillip.buckle@sacmh.co.za marcelv@sacmh.co.za</p> | <p>Seam Mined B - Seam C – Upper Seam C – Lower Seam</p> <p>Product Bituminous coal</p> <p>Mine method Opencast and</p> | <p>Market Export</p> <p>Transport Export through RBCT and Matola.</p> <p>Remarks No 4 seam mined when present. Holds the</p> |

| Mine Code | Address and Other details | Seam Mined; Coal Type; Mining Method and Coal Preparation | Transportation of final product; Marketing; Remarks |
|-----------|---|---|---|
| | <u>Coalfield</u> ERMELO <u>Farm, District</u> Mooifontein 109 IT 1 ERMELO | underground mining operation <u>Coal Preparation</u> Medium Separation Coal Processing Plant | Umlabu Mining Assets which include Vlakfontein, Voorslag and Mooifontein coal deposits. |

5.18 HOSKEN CONSOLIDATED INVESTMENTS LIMITED (HCI)

P O Box 594
NORTHLANDS
2116

Tel: (011) 448 4900
Cell: 083 443 2155
Fax: (011) 448 4901

Listing: Johannesburg Stock Exchange

Hosken Consolidated Investments Limited (HCI) is a JSE Listed black empowerment investment holding company. HCI's major shareholder is the SACTWU Investment Group, the investment vehicle for the South African Clothing and Textile Workers Union. The group is involved in a diverse group of investments including hotel and leisure; interactive gaming; media and broadcasting; transport; mining; clothing and properties. The coal mining division, HCI Coal has three coal interests. Palesa and Mbali coal mines are fully operational and Nokuhle Colliery is still under development.

5.18.1 Hosken Consolidated Investments Limited (HCI)

| Mine Code | Address and Other details | Seam Mined; Coal Type; Mining Method and Coal Preparation | Transportation of final product; Marketing; Remarks |
|-----------|---|--|---|
| 1527 | <p>Palesa Colliery (Palesa Coal (Pty) Ltd) P O Box 594 NORTHLANDS 2116</p> <p>Tel: (011) 448 4900 Fax: (011) 448 4901 Contact Person: Mr Russell Jackson Email: rjackson@hci.co.za Mine Manager: Dawid Ras Email: davidr@hci.co.za</p> <p>Coalfield WITBANK</p> <p>Farm, District Loopspruit 435 JR portions 4,5,6,7 and 8 WITBANK</p> | <p>Seam Mined Bottom Seam (2 seam equivalent) and Main seam (4 seam equivalent)</p> <p>Product Bituminous coal</p> <p>Mine method Opencast</p> <p>Coal Preparation Crushing, screening and wash</p> | <p>Market Local (Eskom)</p> <p>Transport Road</p> |
| 5041 | <p>Mbali Colliery PO Box 594 Northlands 2116</p> <p>Tel: (011) 448 4900 Cell: 083 443 2155 Fax: (011) 448 4001 Contact Person:</p> | <p>Product Bituminous coal</p> <p>Mine method Opencast</p> | <p>Market Local (Eskom)</p> <p>Transport Road</p> |

| Mine Code | Address and Other details | Seam Mined; Coal Type; Mining Method and Coal Preparation | Transportation of final product; Marketing; Remarks |
|-----------|---|---|---|
| | Email: rjackson@hci.co.za Mine Manager: <u>Coalfield</u> WITBANK <u>Farm, District</u> Klippoortjie 32 IS Various WITBANK | | |

5.19 MUHANGA MINES (PTY) LTD

PO Box 4541
Middelburg
1050

Tel: (013) 243 0795
Fax: (013) 243 0806
Coal Contact Person Wihan van Zyl

Listing: Johannesburg Stock Exchange

Muhanga Mines is a Black Economic Empowerment coal mining company. Based in the Middelburg area, it is Broad-based-black economic empowerment (BBBEE) level 7 company.

5.19.1 Muhanga Mines (Pty) Ltd's collieries

| Mine Code | Address and Other details | Seam Mined; Coal Type; Mining Method and Coal Preparation | Transportation of final product; Marketing; Remarks |
|------------------|--|---|---|
| 4727 | <p>Goedehoop Section – Naauwpoort Mine Address as above</p> <p>Tel: (013) 243 0795 Fax: (013) 243 0806 Mine Manager: Martin Joubert Email: mjoubert@muhangamines.co.za / hdeale@muhangamines.co.za</p> <p>Coalfield WITBANK</p> <p>Farm, District Goedehoop 315 JS MIDDELBURG</p> | <p>Seam Mined Seam 1 and 2</p> <p>Product Export Type Coal</p> <p>Mine method Open Cast</p> <p>Coal Preparation Washing</p> | <p>Market Export and local</p> <p>Transport Road and rail</p> |
| 5023 | <p>Vlakraagte Mine Address as above</p> <p>Tel: (013) 243 0795 Fax: (013) 243 0806 Email: hdeale@muhangamines.co.za</p> <p>Coalfield WITBANK</p> <p>Farm, District Vlakraagte Block 3 MIDDELBURG</p> | <p>Product Bituminous</p> <p>Mine method Opencast</p> | <p>Market Local (Merchants)</p> <p>Transport Road</p> |
| 2650 | <p>Langkloof Mine Address as above</p> <p>Tel: (013) 243 0795 Fax: (013) 243 0806</p> | <p>Product Bituminous</p> <p>Mine method Opencast</p> | <p>Market Local (Merchants)</p> <p>Transport Road</p> |

| Mine Code | Address and Other details | Seam Mined; Coal Type; Mining Method and Coal Preparation | Transportation of final product; Marketing; Remarks |
|-----------|--|---|---|
| | Email: hdeale@muhangamines.co.za <u>Coalfield</u> WITBANK <u>Farm, District</u> Langkloof 356 JT 14 BELFAST | | |

5.20 OTHER COLLIERIES

In this section all companies with one or two mines are grouped together and tabulated below.

| Mine Code | Address and Other details | Seam Mined; Coal Type; Mining Method and Coal Preparation | Transportation of final product; Marketing; Remarks |
|-----------|---|--|--|
| 3441 | <p>Nkomati Anthracite PO Box 2244 WITBANK 1035</p> <p>Tel: (013) 691 1144 Fax: (013) 691 1148 Email: finances@benicon.co.za Mine Manager: Mr M Minnaar</p> <p><u>Coalfield</u> KANGWANE</p> <p><u>Farm, District</u> Kamhlushwa Komatipoort NKOMAZI</p> | <p><u>Product</u> Anthracite</p> <p><u>Mine method</u> Underground – bord and pillar Opencast – truck and shovel</p> <p><u>Coal Preparation</u> Washing</p> | <p><u>Market</u> Export and domestic</p> <p><u>Transport</u> Road and rail. Exports through Maputo.</p> <p><u>Holding Company</u> Benicon Coal (Pty) Ltd</p> |
| 3046 | <p>Black Wattle Colliery (Pty) Ltd PO Box 1704 MIDDELBURG 1050</p> <p>Tel: (013) 246 9013 Fax: 086 628 6296 Contact Person: Piet Joubert Email: willem@blackwattle.co.za</p> <p><u>Coalfield</u> WITBANK</p> <p><u>Farm, District</u> Middelburg Townlands 0 JS Rem MIDDELBURG</p> | <p><u>Seam Mined</u> No 1 and 2 seams</p> <p><u>Product</u> Bituminous coal</p> <p><u>Mine method</u> Underground – mechanised bord and pillar and an opencast operation.</p> <p><u>Coal Preparation</u> Spirals, cyclone and drum separation.</p> | <p><u>Market</u> Export and local.</p> <p><u>Transport</u> Road and rail. Exports through RBCT.</p> <p><u>Holding Company</u> Bischi Mining Exploration (Pty) Ltd</p> |
| 4880 | <p>Brakfontein Colliery Grayston Ridge Office Park Block A Lower Ground Floor 144 Kathrine Street Sandton 2146</p> <p>Tel: (011) 430 7640 Fax: (011) 262 3868 Mine Manager: Faan Jooste Email: mines@goldridge.co.za</p> | <p><u>Product</u> Bituminous coal</p> <p><u>Mine method</u> Opencast</p> | <p><u>Holding Company</u> GoldRidge Trading</p> |

| Mine Code | Address and Other details | Seam Mined; Coal Type; Mining Method and Coal Preparation | Transportation of final product; Marketing; Remarks |
|-----------|--|--|--|
| | <p><u>Coalfield</u> WITBANK</p> <p><u>Farm, District</u> Brakfontein 264 IR DELMAS</p> | | |
| 3794 | <p>Eastside Coal Company P O Box 3185 WITBANK 1035</p> <p>Tel: (013) 690 3131 Fax: (013) 656 4374 Mine Manager: A.E. Rabie Email: rennes@eastsidecoal.co.za</p> <p><u>Coalfield</u> ERMELO</p> <p><u>Farm, District</u> Portion 1 of the farm Paardeplaats 12 Rem. Extention of portion 1 CAROLINA</p> | <p><u>Seam Mined</u> Seam B</p> <p><u>Product</u> Bituminous coal</p> <p><u>Mine method</u> Opencast</p> <p><u>Coal preparation</u> Barnaby Barrel Plant</p> | <p><u>Market</u> Local and export</p> <p><u>Transport</u> Road and rail</p> <p><u>Holding Company</u> Black Gold Coal Estates 34 OR Tambo Street Model Park Witbank Tel: (013) 690 3131 Fax: (013) 656 4374 Contact person Jamie Ferguson</p> |
| 4882 | <p>Vierfontein Colliery Postnet Suite 235 Private Bag X9976 Sandton 2146</p> <p>Tel: (011) 262 2003 /4 Fax: 086 733 1734 Contact Person: Rajiv Dabas Mobile 082 878 8712 Email: rajiv.dabas@arctos.co.za Mine Manager: Lalit Tewari Email: lalit.tewari@arctos.co.za</p> <p><u>Coalfield</u> HIGHVELD</p> <p><u>Farm, District</u> Vierfontein 61 IS Rem 31and 44 BETHAL</p> | <p><u>Mine method</u> Opencast</p> | <p><u>Market</u> Local</p> <p><u>Transport</u> Road and rail</p> <p><u>Holding Company</u> Idwala Crypts (Pty) Ltd T/A Idwala Coal (Pty) Ltd</p> |
| 4436 | <p>Uitkomst Colliery Postnet Suite 97 Private Bag X6603 NEWCASTLE</p> | <p><u>Product</u> Bituminous coal</p> <p><u>Mine method</u></p> | <p><u>Market</u> Local</p> <p><u>Transport</u></p> |

| Mine Code | Address and Other details | Seam Mined; Coal Type; Mining Method and Coal Preparation | Transportation of final product; Marketing; Remarks |
|-----------|--|---|---|
| | 2940 Tel: 034 312 3703 Fax: 034 312 3719 Contact Person: Wanda Boshoff Email: wanda@uitkomst.co.za <u>Coalfield</u> UTRECHT <u>Farm, District</u> Uitkomst 95 0 UTRECHT | Surface and Underground – Bord and pillar and an opencast operation. <u>Coal Preparation</u> Washing and crushing. | Road <u>Holding Company</u> Brandwine Valley Investment (Pty) Ltd |
| 1359 | Chelmsford Colliery PO Box 9056 Newcastle 2940 Tel: (034) 325 0335 Fax: (034) 325 0043 Contact Person: Malcolm Pryde Email: mpryde@worldonline.co.za <u>Coalfield</u> KLIP RIVER <u>Farm, District</u> Chelmsford 8642; Herons Court 8521; Forts 8502 NEWCASTLE | <u>Product</u> Bituminous coal <u>Mine method</u> Opencast <u>Coal Preparation</u> Washing and crushing | <u>Market</u> Local and export <u>Transport</u> Road <u>Holding Company</u> Future Coal (Pty) Ltd |
| 0702 | DA-MA Colliery P O Box 9056 NEWCASTLE 2940 Tel: (034) 325 0335 Fax: (034) 325 0043 Contact Person: Malcolm Pryde Email: mpryde@worldonline.co.za <u>Coalfield</u> UTRECHT <u>Farm, District</u> Leeuwfontein 94 NEWCASTLE | <u>Product</u> Bituminous Coal <u>Mine method</u> Opencast <u>Coal Preparation</u> Washing and crushing | <u>Market</u> Local and export <u>Transport</u> Road <u>Holding Company</u> Thuta Amalahle Transport & Construction (Pty) Ltd |
| 3419 | Droogvallei Colliery PO Box 194 | <u>Seam Mined</u> E seam | <u>Market</u> Merchants and Export |

| Mine Code | Address and Other details | Seam Mined; Coal Type; Mining Method and Coal Preparation | Transportation of final product; Marketing; Remarks |
|------------------|---|--|--|
| | <p>WITKOPPEN 2068</p> <p>Tel: (011) 705 2241 Fax: (011) 705 2270 Email: ho@siphethe.co.za</p> <p><u>Coalfield</u> ERMELO</p> <p><u>Farm, District</u> Droogvallei 41 IT CAROLINA</p> | <p><u>Product</u> Bituminous coal</p> <p><u>Mine method</u> Opencast</p> <p><u>Coal Preparation</u> Washing. Raw crushing and screening</p> | <p><u>Transport</u> Road and rail.</p> <p><u>Other remarks</u> Exports through RBCT</p> <p><u>Holding Company</u> Coastal Fuels (Pty) Ltd PO Box 1050 RIVONIA 2128 Tel: (011) 705 2241 Fax: 0860 645 0963</p> |
| 4478 | <p>Kendal Colliery PO Box 20586 Del Judor Ext 4 WITBANK 1044</p> <p>Tel: (013) 656 1060 / 1037 Fax: (013) 656 1086 Contact Person: Henry Malan</p> <p>Email: hmalan@hmesa.net</p> <p><u>Coalfield</u> WITBANK</p> <p><u>Farm, District</u> Bankfontein 216 IR 6; Heuvelfontein 215 IR 5 & 10 WITBANK</p> | <p><u>Seam Mined</u> No 2 seam</p> <p><u>Product</u> Bituminous coal</p> <p><u>Mine method</u> Opencast – Truck and shovel</p> <p><u>Coal Processing</u> Washing</p> | <p><u>Market</u> Local.</p> <p><u>Other remarks</u> No 3 and 4 seams mined when available</p> <p><u>Holding Company</u> Homeland Mining & Energy (Pty) Ltd</p> |
| 4454 | <p>Northfield Slurry Dump PO Box 20586 Del Judor Ext 4 WITBANK 1044</p> <p>Tel: (013) 656 1060 Fax: (013) 656 1086 Contact Person: Henry Malan Email: Email: hmalan@hmesa.net</p> <p><u>Coalfield</u> KLIPRIVIER</p> <p><u>Farm, District</u> Brickfields 15750 GT GLENCOE</p> | <p><u>Mine method</u> Dump reclamation</p> | <p><u>Market</u> Export.</p> <p><u>Holding Company</u> Homeland Mining & Energy (Pty) Ltd</p> <p><u>Remarks</u> In the process of closing down.</p> |

| Mine Code | Address and Other details | Seam Mined; Coal Type; Mining Method and Coal Preparation | Transportation of final product; Marketing; Remarks |
|-----------|--|--|--|
| 4818 | <p>Kiepersol Colliery 12A Theo Mocke Street PIET RETIEF 2380</p> <p>Tel: (011) 461 6536 Fax: 086 617 3115 General Manager Unni Krishnana Email: unni.krishnan@jindalafrika.com</p> <p>Coalfield ERMELO</p> <p>Farm, District St. Helena 167HT Goedehoop 169 HT Groot Hoek 171 HT Langgewach 170 HT PIET RETIEF</p> | <p>Seam Mined Alfred and Dundas combined</p> <p>Product Anthracite Bituminous</p> <p>Mine method Underground mining Continuous Miners and Conventional Drill Blast</p> <p>Coal Preparation Two - Stage wash plant with Crushing Plant. Wash plant Based on heavy medium cyclone coal beneficiation technology.</p> | <p>Market Export and local.</p> <p>Transport Road and rail.</p> <p>Holding Company Jindal Mining SA (Pty) Ltd Wakkerstroom Road, Uitgevallen turn off to Kiepersol Colliery Website http://www.jindalsteelpower.com Head of corporate affairs: Nthabiseng Motsepe Tel: +27 11 706 8420 Fax: +27 86 768 9657</p> <p>Remarks Additional seams; Gus and Coking are expected to be mined in the foreseeable future</p> |
| 3561 | <p>Delmas Coal Mine Private Bag X0002 DELMAS 2210</p> <p>Tel: (013) 665 7030 Fax: (013) 665 7016 Email: hesterk@delcoal.co.za Mine Manager: K Krugel</p> <p>Coalfield HIGHVELD</p> <p>Farm, District Hawerklip 265 IR Dieplaagte 262 IR Middelburg 266 IR Brakfontein 264 IR Enkeldebosch 391 IR Steenkoolspruit 302 IR DELMAS</p> | <p>Seam Mined No 4 seam</p> <p>Product Bituminous coal</p> <p>Mine method Underground – Mechanised bord and pillar and opencast operation</p> <p>Coal Processing Washing with dense medium cyclone.</p> | <p>Market Local</p> <p>Transport Road and rail</p> <p>Holding Company Kuyasa Mining (Pty) Ltd</p> |
| 3486 | <p>Mimosa Colliery PO Box 52651 2132</p> <p style="text-align: right;">Saxonwold</p> | <p>Seam Mined C upper seam</p> <p>Product</p> | <p>Market Export through RBCT</p> <p>Transport</p> |

| Mine Code | Address and Other details | Seam Mined; Coal Type; Mining Method and Coal Preparation | Transportation of final product; Marketing; Remarks |
|-----------|--|--|--|
| | <p>Tel: (017) 843 3195 Fax: (017) 843 1424 Email: ncoal@portaclone.co.za Mine Manager: D Maiden</p> <p><u>Coalfield</u> WITBANK</p> <p><u>Farm, District</u> Witkrantz 53 IT CAROLINA</p> | <p>Bituminous coal</p> <p><u>Mine method</u> Opencast operation</p> <p><u>Coal Processing</u> HMS washing plant</p> | <p>Road and rail</p> <p><u>Holding Company</u> Northern Coal (Pty) Ltd PO Box 52651 SAXONWORLD 2132 Tel: (011) 882 7204 Fax: (011) 882 9044</p> |
| 1707 | <p>Polmaise Colliery (Pty) Ltd PO Box 1499 MIDDELBURG 1050</p> <p>Tel: (013) 283 1478 Fax: (013) 283 1416 Mine Manager: A weir Email: aweir@lantic.net</p> <p><u>Coalfield</u> WITBANK</p> <p><u>Farm, District</u> Goedehoop 315 JS MIDDELBURG</p> | <p><u>Coal Processing</u> Toll washing</p> <p><u>Mine method</u> Underground</p> | <p><u>Market</u> Local and exports (through RBCT)</p> <p><u>Transport</u> Road</p> <p><u>Holding Company</u> Polmaise Colliery (Pty) LTD</p> <p><u>Remarks</u> This is just a coal processing plant. They plan Underground mining in future.</p> |
| 2716 | <p>Zululand Anthracite Colliery (ZAC) Private Bag X71 ULUNDI 3838</p> <p>Tel: (035) 870 0302 /874 7300 Fax: (035) 870 0805 Email: berryv@zulac.co.za Operations Manager: Peet Snyders</p> <p><u>Coalfield</u> NONGOMA</p> <p><u>Farm, District</u> Okhukho Reserve 0; District of Nongoma Reserve 12 MAHLABATHINI</p> | <p><u>Product</u> Anthracite</p> <p><u>Mine method</u> Underground operation (bord and pillar followed by stooping on retreat)</p> <p><u>Coal Processing</u> Washing</p> | <p><u>Market</u> Local and export</p> <p><u>Transport</u> Run of mine is transported by road to treatment facilities.</p> <p><u>Holding Company</u> Riversdale Holding (Pty) Ltd (74%)</p> <p><u>Remarks</u> BEE partner is Maweni Mining Consortium</p> |
| 4641 | <p>Tendele Coal Mine (Pty) Ltd Postnet Suite 208 Private Bag 013 MTUBATUBA 3935</p> | <p><u>Seam Mined</u> B seam</p> <p><u>Product</u> Anthracite, bituminous</p> | <p><u>Market</u> Local (Fero-metallurgical industry)</p> <p><u>Transport</u></p> |

| Mine Code | Address and Other details | Seam Mined; Coal Type; Mining Method and Coal Preparation | Transportation of final product; Marketing; Remarks |
|-----------|---|--|--|
| | <p>Tel: 082 895 1406 Fax: 082 895 1386 Email: richard@somkhele.co.za Mine Manager: F Manyanga</p> <p>Coalfield SOMKHELE</p> <p>Farm, District Somkele 158223 Area 2&3 HLABISA</p> | <p>Mine method Opencast – Truck and shovel; Surface</p> <p>Coal Processing Wet plant</p> | <p>Road</p> <p>Holding Company Petmin Listing: Johannesburg Stock Exchange</p> |
| 5050 | <p>Kangra Coal (Pty) Ltd PO Box 745 PIET RETIEF 2380</p> <p>Tel: (017) 826 9700 Fax:(017) 826 5484 / 026 550 3764</p> <p>Coalfield ERMELO</p> <p>Farm, District Klipspruit 138 HT Annyspruit 139 HT Maquasa 19 HT Roodekraal 214 HT WAKKERSTROOM</p> | <p>Product Bituminous coal</p> <p>Mine method Underground – Mechanised bord and pillar</p> <p>Coal Processing Heavy medium cyclone plants.</p> | <p>Market Export</p> <p>Transport Road and rail</p> <p>Holding Company LimeISA International Coal SA (Pty) Ltd</p> |
| 1994 | <p>Malahleni Colliery P O Box 1963 Gramerview 2060</p> <p>Tel: (011) 463 0514 Fax: (011) 463 0520 Email: rani@malhlenicoal.co.za</p> <p>Coalfield WITBANK</p> <p>Farm, District Ongezien 365 JS MIDDELBURG</p> | <p>Seam Mined No 2 seam and some occurrences of seam 4.</p> <p>Product Bituminous coal</p> <p>Mine method Opencast operation – Truck and shovel</p> <p>Coal Preparation Crushing and screening</p> | <p>Market Eskom</p> <p>Transport Road</p> <p>Holding Company Silver Unicorn Trading</p> |
| 3165 | <p>Siyabusa Mining Siyabusa Mining West PO Box 439 WITBANK</p> | <p>Seam Mined No 2 seam</p> <p>Product</p> | <p>Market Coal sold to coal distributor Mcphail</p> |

| Mine Code | Address and Other details | Seam Mined; Coal Type; Mining Method and Coal Preparation | Transportation of final product; Marketing; Remarks |
|------------------|--|---|--|
| | <p>1035</p> <p>Tel: (013) 656 1544 Fax: (013) 656 1937</p> <p><u>Coalfield</u> WITBANK</p> <p><u>Farm, District</u> Blesboklaagte 296 JS WITBANK</p> | <p>Bituminous coal</p> <p><u>Mine method</u> Opencast operation – Truck and shovel</p> <p><u>Coal Preparation</u> Washing</p> <p>ROM coal processed at Eyethu's Mooifontein plant</p> | <p><u>Transport</u> Road</p> |
| 3600 | <p>Aviemore and Magdalena Colliery PO Box 684 DUNDEE 3000</p> <p>Tel: (034) 212 1455 Fax: (034) 212 1232 Email: araghoonan@forbescoal.co.za</p> <p><u>Coalfield</u> KLIPRIVIER</p> <p><u>Farm, District</u> Magdalena 7574 Morgenstond 3347 DUNDEE</p> | <p><u>Seam Mined</u> Gus/Alfred combination</p> <p><u>Product</u> Magdalena - Bituminous coal Aviemore - Anthracite</p> <p><u>Mine method</u> Both underground and opencast</p> <p><u>Coal Preparation</u> Processing of coal from both mines through the Dundee Coalfields processing plant. Also calcining of anthracite.</p> | <p><u>Market</u> Local and export</p> <p><u>Transport</u> Local sales transported by road Exports railed to RBCT</p> <p><u>Holding Company</u> Forbes and Manhattan Coal Corporation Woodlands Office Park Portion 3rd Floor Building 13 Cnr Woodlands & Kelvin Drive, Woodmead Johannesburg, PO Box 72, Woodlands, 2082 www.forbescoal.com Tel: +27 11 656 3446 Email: info@forbescoal.com</p> |
| 4540 | <p>Elitheni Colliery First Office, Floor 1, Kings Court Buffelsfontein Road PO Box 211177 The Fig Tree 6033 PORT ELIZABETH</p> <p>Tel: (041) 368 9650 Fax: (041) 368 9651 Contact: Mazizi Msutu or David Nel Email: messages@elitheni.co.za / ayanda.kheswa@elitheni.co.za Web: www.elitheni.co.za</p> | <p><u>Seam Mined</u> Guba seam</p> <p><u>Product</u> Anthracite</p> <p><u>Mine method</u> Opencast operation – Truck and shovel</p> <p><u>Coal Preparation</u> Crushing and screening</p> | <p><u>Market</u> Local</p> <p><u>Transport</u> Road</p> <p><u>Holding Company</u> Strategic Natural Resource PLC Claridge House 32 Davies Street Mayfair London W1K 4ND Tel: +44 (0) 20 3328 5668</p> |

| Mine Code | Address and Other details | Seam Mined; Coal Type; Mining Method and Coal Preparation | Transportation of final product; Marketing; Remarks |
|-----------|--|---|--|
| | <p><u>Coalfield</u> MOLTENO INDWE</p> <p><u>Farm, District</u> Macubeni Lot 3 Guba Hoek Area LADY FRERE</p> | | Contact: David Nel (CEO) |
| 4933 | <p>Elandspruit Colliery PO Box 90349 Bertsham 2013</p> <p>Tel: 083 744 4745 / 083 995 0172 Fax: (011) 867 0520 Contact Person: Kurhula Mbuyelo Email: kurhula@mbuyelo.com</p> <p><u>Coalfield</u> WITBANK</p> <p><u>Farm, District</u> Elandspruit 291 JS PTN 67 68 & 69 0 MIDDELBURG</p> | <p><u>Product</u> Bituminous</p> <p><u>Mine method</u> Surface</p> | <p><u>Market</u> Local</p> <p><u>Transport</u> Road</p> <p><u>Holding Company</u> Misty Sea Trading 262 (Pty) Ltd</p> |
| 3205 | <p>Delmas Colliery P O Box 14186 BREDELL 1623</p> <p>Tel: (011) 552 5925 Fax: (011) 552 5928 Email: sales@stuartgroup.co.za</p> <p><u>Coalfield</u> WITBANK</p> <p><u>Farm, District</u> Weltevreden 227 IR 9 DELMAS</p> | <p><u>Seam Mined</u> No 2 seam</p> <p><u>Product</u> Bituminous coal</p> <p><u>Mine method</u> Opencast with conventional equipment</p> <p><u>Coal Preparation</u> Crushing, screening and washing with dense medium cyclones and drum.</p> | <p><u>Market</u> Local</p> <p><u>Transport</u> Road</p> <p><u>Holding Company</u> Stuart Coal (Pty) Ltd</p> |
| 4475 | <p>Khanyisa Colliery P O Box 113 KRUGERSDORP 1740</p> <p>Tel: (013) 656 3303 / 072 738 7856 Fax: 086 657 8637 Email: joe@wescoal.com</p> <p><u>Coalfield</u> WITBANK</p> | <p><u>Seam Mined</u> No 2 and 4 seams</p> <p><u>Product</u> Bituminous coal</p> <p><u>Mine method</u> Opencast – Truck shovel</p> | <p><u>Market</u> Local</p> <p><u>Transport</u> Road</p> <p><u>Other remarks</u> No 4 seam mined when present.</p> |

| Mine Code | Address and Other details | Seam Mined; Coal Type; Mining Method and Coal Preparation | Transportation of final product; Marketing; Remarks |
|-----------|---|---|---|
| | <p><u>Farm, District</u> Heuvelfontein 215 IR WITBANK</p> | <p><u>Coal Preparation</u> Crushing and washing</p> | <p><u>Holding Company</u> Wescoal Holdings Ltd</p> |
| 4794 | <p>Hakhano Colliery P O Box 2632 Saxonworld 2132 Tel: (011) 783 7996 Fax: (011) 783 0816 Coal Contact Person: Tarik Imre Mine Manager: Jeff Mulaudzi Email: hakhano@umthombo.co.za</p> <p><u>Coalfield</u> WITBANK</p> <p><u>Farm, District</u> Brummersheim 409 JS MIDDELBURG</p> | <p><u>Seam Mined</u> Seam 1 & 2</p> <p><u>Product</u> Bituminous coal</p> <p><u>Mine method</u> Opencast</p> <p><u>Coal Preparation</u> Washing</p> | <p><u>Market</u> Local and export</p> <p><u>Transport</u> Road</p> <p><u>Holding Company</u> Umthombo Resources (Pty) Ltd 7th Floor, 13 Fredman Drive SANDOWN 2196</p> <p>Tel: (011) 783 7996 Fax: (011) 783 0816 Website: www.umthombo.co.za</p> |
| 4735 | <p>Usutu Colliery Private Bag X 1009 ERMELO 2350</p> <p>Tel: (017) 801 1922/3/4 Fax: (017) 801 1925 Contact Person: Nathalie Henning Email: Nathalie@vunene.co.za</p> <p><u>Coalfield</u> ERMELO</p> <p><u>Farm, District</u> Blaauwkop 271 IT 3 7 & 9; Camden Power Station 329 IT 2; Holbank 265 IT Various; Jan Hendriksfontein 263 IT Various; Leeuwenburg 137 IT 2 & 4; Mooiplaats 290 IT Various; Onverwacht 273 IT 9 & 12; Republiek 123 IT; Roodewal 270 IT 9 & 12; Swaarbou 256 IT; Transutu 257 IT; Twyfelaarorburnside 4 IT 266; Uitkomst 292 IT 18; Van Oudshoornstroom 261 IT 4; Vlakfontein 266 IT 1; Vlakfontein 269 IT 1-4;</p> | <p><u>Seam Mined</u> Seam B-Lower and C-Lower</p> <p><u>Product</u> Bituminous coal</p> <p><u>Mine method</u> Opencast truck and shovel</p> | <p><u>Market</u> Domestic</p> <p><u>Transport</u> Coal trucked by road</p> <p><u>Holding Company</u> Vunene Mining Private Bag X7260 WITBANK</p> <p>1035 Tel: 013 697 3125</p> <p>Fax: 086 641 5701 Contact Petrus Venter</p> |

| Mine Code | Address and Other details | Seam Mined; Coal Type; Mining Method and Coal Preparation | Transportation of final product; Marketing; Remarks |
|-----------|---|--|--|
| | Weltevreden 289 IT 2; Witbank 262 IT 25; Witpunt 267 IT Various | | |
| 4812 | <p>Vlakfontein Colliery PO Box 712 OGIES 2230</p> <p>Tel: 082 327 1625 /082 711 7381 Fax: 086 618 4289 Email: mashudun@aefgroup.co.za / kobued@aemfc.co.za Mine Manager: M Mathebula</p> <p>Coalfield WITBANK</p> <p>Farm, District Vlakfontein 569 JR Ptn 3 WITBANK</p> | <p>Product Bituminous coal</p> <p>Mine method Opencast</p> | <p>Market ROM sold to Coal of Africa.</p> <p>Holding Company African Expl Mining & Finance Corp</p> |
| 4589 | <p>Vuna Colliery PO BOX 3890 RIVONIA 2196 Tel: 072 738 7856 Fax: 046 624 8670 / 086 657 8637 Mine Manager: P van Zyl</p> <p>Coalfield ERMELO</p> <p>Farm, District Zoonebloem 396 JS MIDDELBURG</p> | <p>Seam Mined No 1 and 2 seam</p> <p>Product Bituminous coal</p> <p>Mine method Opencast Truck and shovel</p> <p>Coal Processing No processing</p> | <p>Market ROM sold to Coal of Africa.</p> <p>Holding Company Vuna Mining Enterprise (Pty) Ltd PO Box 3890 RIVONIA 2196 Tel: 072 738 7856 Fax: 086 657 8637</p> <p>Remarks Reserves depleted. Under care and maintenance</p> |
| 4837 | <p>WB Blesboklaagte PO Box 14406 LERAATSFONTEIN 1038</p> <p>Tel: (013) 656 0329 Fax: (013) 656 0189 Email: gaiacoal@gmail.com</p> <p>Coalfield WITBANK</p> | <p>Mine method Opencast</p> | <p>Market Local</p> <p>Holding Company Gaia Global Coal (Pty) Ltd</p> |

| Mine Code | Address and Other details | Seam Mined; Coal Type; Mining Method and Coal Preparation | Transportation of final product; Marketing; Remarks |
|-----------|--|--|--|
| | <p><u>Farm, District</u> Blesboklaagte 296 JS Ptn 104 0; Eenzaamheid 534 JR Ptn 39 0 WITBANK</p> | | |
| 2798 | <p>Pembani Coal Carolina (Pty) Ltd Private Bag 9924 SANDTON 2146</p> <p>Tel: (013) 690 3450/1 Fax: (013) 690 3455</p> <p>Mine Manager: Jabu Caswell Radebe Cell: 082 921 4712 Email: jabulani.radebe@pembanicoal.com</p> <p><u>Coalfield</u> WITBANK</p> <p><u>Farm, District</u> Haarlem 39 LT PTN 1 Groenvallei 40 LT PTN 1 CAROLINA</p> | <p><u>Seam Mined</u> B seam</p> <p><u>Product</u> Bituminous coal</p> <p><u>Mine method</u> Opencast – Truck and shovel</p> <p><u>Coal Preparation</u> Washing</p> | <p><u>Market</u> Domestic and export</p> <p><u>Transport</u> Rail and road</p> <p><u>Remarks</u> Plans to mine E seam at a later stage</p> <p><u>Holding Company</u> Pembani Coal Carolina (Pty) Ltd</p> |
| 4927 | <p>Vlakfontein Quarry PO Box 884 Nigel 1490</p> <p>Tel: (011) 739 9000 / (011) 814 8561 Fax: 086 634 5930 Email: madelein@brikor.net / piet@brikor.net Mine Manager: M C Reid</p> <p><u>Coalfield</u> WITBANK</p> <p><u>Farm, District</u> Remainder of Vlakfontein 281 IR 0 NIGEL</p> | <p><u>Product</u> Bituminous</p> <p><u>Mine method</u> Opencast</p> | <p><u>Market</u> Local (Merchants)</p> <p><u>Transport</u> Road</p> <p><u>Holding Company</u> Brikor Limited</p> |
| 4928 | <p>PTN 27 Varkensfontein 169 IR PO Box 378 Olifantsfontein 1665</p> <p>Tel: (011) 739 9000 / (011) 814 8561 Fax: 086 634 5930 Email: madelein@brikor.net /</p> | <p><u>Product</u> Anthracite</p> <p><u>Mine method</u> Opencast</p> | <p><u>Market</u> Local (Merchants)</p> <p><u>Transport</u> Road</p> <p><u>Holding Company</u> Brikor Limited</p> |

| Mine Code | Address and Other details | Seam Mined; Coal Type; Mining Method and Coal Preparation | Transportation of final product; Marketing; Remarks |
|-----------|--|---|--|
| | <p>piet@brikor.net / murray@brikor.net Mine Manager: M C Reid</p> <p><u>Coalfield</u> WITBANK</p> <p><u>Farm, District</u> Varkensfontein 169 IR 27 NIGEL</p> | | |
| 5040 | <p>Noodhulp Colliery PO Box 14568 Leraatsfontein Witbank 1038</p> <p>Tel: (013) 656 2261 Fax: (013) 656 2206 Email: truebluesa@yahoo.com Mine Manager:</p> <p><u>Coalfield</u> WITBANK</p> <p><u>Farm, District</u> Woestalleen 477 JS 12 WITBANK</p> | <p><u>Product</u> Bituminous</p> <p><u>Mine method</u> Opencast</p> | <p><u>Market</u> Local (Merchants)</p> <p><u>Transport</u> Road</p> <p><u>Holding Company</u> Katawa Trading 106 CC</p> |
| 5044 | <p>Kangala Colliery PO Box 2423 Brooklyn Square 0075</p> <p>Tel: (012) 460 0805 Fax: (012) 460 2417 Email: p.vanzyl@universal.com Mine Manager:</p> <p><u>Coalfield</u> WITBANK</p> <p><u>Farm, District</u> Wolwenfontein 244 IR DELMAS</p> | <p><u>Product</u> Bituminous</p> <p><u>Mine method</u> Opencast</p> <p><u>Coal Processing</u> Crushing and screening</p> | <p><u>Market</u> Local (Eskom) and export</p> <p><u>Transport</u> Road</p> <p><u>Holding Company</u> Universal Coal Development 1</p> <p><u>Remarks</u> Australian Stock Exchange listed</p> |
| 5004 | <p>Nungu Colliery Postnet Suite 387 Private Bag X7297 EMALAHLENI, 1035</p> <p>Tel: 013 656 2695</p> | <p><u>Product</u> Bituminous</p> <p><u>Mine method</u> Opencast</p> | <p><u>Market</u> Local (Merchants)</p> <p><u>Transport</u> Road</p> <p><u>Holding Company</u></p> |

| Mine Code | Address and Other details | Seam Mined; Coal Type; Mining Method and Coal Preparation | Transportation of final product; Marketing; Remarks |
|-----------|---|--|--|
| | <p>Fax: 086 685 7904 Mine Manager: MR T H Erskine Cell: 072 111 7307 COO Email: paerskine@mweb.co.za Cell: 082 523 7328</p> <p>Coalfield WITBANK</p> <p>Farm, District Remaining extent of Portion 4 and remaining extent of Portion 23 of the Farm, ELANDSPRUIT 291 JS MIDDELBURG</p> | <p>Coal Processing No processing</p> | <p>Nungu Trading (PTY) LTD Block 5 Bureau de Paul Route N4 Business Park Mandela Street Ben Fleur Witbank Enquiries: Mrs Jennifer Erskine Email: jlerskine@mweb.co.za Tel: 087 802 7106 / 013 656 2695</p> <p>Remarks Name of establishment : known as Elandspruit Nungu BEE Status: Level 5 Contributor</p> |
| 5014 | <p>Phalanndwa Colliery PO Box 2632 Saxonworld 2132</p> <p>Tel: (011) 783 7996 Mine Manager: Email: jaun@tmsgroup.co.za</p> <p>Coalfield WITBANK</p> <p>Farm, District Schoongezicht 225 IR 10 & 11 DELMAS</p> | <p>Product Bituminous</p> <p>Mine method Opencast</p> <p>Coal Processing No processing</p> | <p>Market Local (Merchants)</p> <p>Transport Road and Rail</p> <p>Holding Company Umthombo Resources</p> |
| 5019 | <p>Umzobanzi Coal & Energy PO Box 1358 Glenvista 2058</p> <p>Tel: (011) 454 5379 Fax: 086 547 7954 Mine Manager: Email: welcome@yellowbeak.co.za</p> <p>Coalfield WITBANK</p> <p>Farm, District Schoongezicht 308 JS 6 DELMAS</p> | <p>Product Bituminous</p> <p>Mine method Opencast</p> <p>Coal Processing No processing</p> | <p>Market Local (Merchants)</p> <p>Transport Road and Rail</p> <p>Holding Company Umzobanzi Coal & Engergy</p> |

| Mine Code | Address and Other details | Seam Mined; Coal Type; Mining Method and Coal Preparation | Transportation of final product; Marketing; Remarks |
|-----------|--|---|---|
| 4975 | <p>Majuba Underground Coal Gasification PO Box 138 Volksrust 2470</p> <p>Tel: (017) 799 3700 Fax: 086 664 1155 Mine Manager: Email: duvenald@eskom.co.za</p> <p>Coalfield HIGHVELD</p> <p>Farm, District Roodekopjes 67 HS AMERSFOORT</p> | <p>Product Bituminous</p> <p>Mine method Underground Coal Gasification</p> | <p>Holding Company Eskom</p> |
| 5028 | <p>Intibane Colliery PO Box 1020 Paardekraal 1752</p> <p>Tel: (011) 954 2721 Fax: 086 687 6968 Mine Manager: Email: ettienne@wescoal.com</p> <p>Coalfield WITBANK</p> <p>Farm, District Vlakovarkfontein 213 IR 16 WITBANK</p> | <p>Product Bituminous</p> <p>Mine method Opencast</p> <p>Coal Processing No processing</p> | <p>Market Local (Merchants)</p> <p>Transport Road and Rail</p> <p>Holding Company Wescoal Holdings Ltd</p> |
| 5030 | <p>Chandler Coal PO Box 1020 Paardekraal 1752</p> <p>Tel: (011) 954 2721 Fax: 086 687 6968 Mine Manager: Email: ettienne@wescoal.com</p> <p>Farm, District KRUGERSDORP</p> | <p>Product Bituminous</p> <p>Mine method</p> | <p>Market Local (Merchants)</p> <p>Transport Road</p> <p>Remarks Agent. Surface works</p> <p>Holding Company Wescoal Holdings Ltd</p> |
| 4233 | <p>Kleinwater Colliery PO Box 10046 Fonteinriet 1464</p> | <p>Product Bituminous</p> <p>Mine method</p> | <p>Market Local (Merchants)</p> <p>Transport Road</p> |

| Mine Code | Address and Other details | Seam Mined; Coal Type; Mining Method and Coal Preparation | Transportation of final product; Marketing; Remarks |
|-----------|--|---|---|
| | <p>Tel: (011) 281 6000 Fax: 086 275 6695 Email: jaco@tmsgroup.co.za</p> <p><u>Coalfield</u> WITBANK</p> <p><u>Farm, District</u> Kleinwater 301 JS 17 WITBANK</p> | | <p><u>Remarks</u> Surface works</p> <p><u>Holding Company</u> Trollope Holdings</p> |
| 5015 | <p>Ledjadja Coal (Pty) Ltd PO Box 5384 Rietvalleirand 0174</p> <p>Tel: (012) 345 1057 Fax: (012) 345 5314 Email: boregan@resgen.com.au Mine Manager: Andy McLeod</p> <p><u>Coalfield</u> WATERBERG</p> <p><u>Farm, District</u> Witkopje 238 LQ 1-3 & Rem; Kalkpan 243 LQ; Draaiom 244 LQ; Kruishout 271 LQ; Vischpan 274 LQ; Osorno 700 LQ; Zeekoevley 241 LQ WATERBERG</p> | <p><u>Product</u> Bituminous, Anthracite</p> <p><u>Mine method</u> Opencast</p> | <p><u>Market</u> Local and Export</p> <p><u>Transport</u> Rail</p> <p><u>Remarks</u> BEE shareholder is Fairy Wing Trading 136 (Pty) Ltd holding 26%.</p> <p><u>Holding Company</u> Resource Generation Limited</p> |
| 4994 | <p>Wildfontein Colliery PO Box 1146 Middelburg 1050</p> <p>Tel: (013) 324 5152 Fax: (013) 243 5866 Email: allanb@precisionopencast.co.za</p> <p><u>Coalfield</u> WITBANK</p> <p><u>Farm, District</u> Wildfontein 420 JS MIDDELBURG</p> | <p><u>Product</u> Bituminous</p> <p><u>Mine method</u> Opencast</p> | <p><u>Market</u> Local (Merchants)</p> <p><u>Transport</u> Road</p> <p><u>Remarks</u> Surface works</p> <p><u>Holding Company</u> Hlagisa Mining Ltd</p> |
| 4989 | <p>Ukufisa Investment Holding PO Box 3537 Middelburg</p> | <p><u>Product</u> Bituminous</p> | <p><u>Market</u> Local (Merchants)</p> |

| Mine Code | Address and Other details | Seam Mined; Coal Type; Mining Method and Coal Preparation | Transportation of final product; Marketing; Remarks |
|-----------|--|--|---|
| | <p>1050</p> <p>Tel: 087 941 3503 Fax: 086 5771782 Email: operations@ukufisa.co.za</p> <p>Coalfield WITBANK</p> <p>Farm, District Leeuwfontein Middelburg Ptn 20 MIDDELBURG</p> | <p>Mine method Surface</p> | <p>Transport Road</p> <p>Remarks Surface works</p> <p>Holding Company Ukufisa Investment Holding (Pty) Ltd</p> |
| 4943 | <p>Sekoko Coal (Pty) Ltd Suite 128 Postnet X9307 Polokwane 0700</p> <p>Tel: (015) 295 6513 Fax: (015) 295 6455</p> <p>Coalfield WATERBERG</p> <p>Farm, District Hooikraal 315 LQ Rem; Massenberg 305 LQ; Minnasvlakte 258 LQ; Smitspan 306 LQ</p> | <p>Product Bituminous</p> <p>Mine method Opencast</p> | <p>Market Local (Merchants)</p> <p>Transport Road</p> <p>Remarks Surface works</p> <p>Holding Company Sekoko Coal (Pty) Ltd</p> |
| 4925 | <p>Klip 25 Colliery Postnet Suite P1 Private Bag X7260 Witbank 1035</p> <p>Tel: 082 575 9006 Fax: 086 662 2599</p> <p>Coalfield WITBANK</p> <p>Farm, District Klipfontein 579 JR 25 WITBANK</p> | <p>Product Bituminous</p> <p>Mine method Opencast</p> | <p>Market Local (Merchants)</p> <p>Transport Road</p> <p>Holding Company BSM Mining</p> |
| 4923 | <p>Alpha Coal (Pty) Ltd PO Box 2590 ERMELO 2350</p> | <p>Product Anthracite</p> <p>Mine method Underground</p> | <p>Market Local (Merchants)</p> <p>Transport Road</p> |

| Mine Code | Address and Other details | Seam Mined; Coal Type; Mining Method and Coal Preparation | Transportation of final product; Marketing; Remarks |
|-----------|---|--|--|
| | <p>Tel: 079 136 1084 Fax: 086 618 2808 Email: Judy@alphacoal.co.za</p> <p><u>Coalfield</u> ERMELO</p> <p><u>Farm, District</u> Uitgevallen 134 IT ERMELO</p> | | <p><u>Holding Company</u> Alpha Capital</p> |
| 4865 | <p>Nelpan (Pty) Ltd PO Box 11385 Middelburg 1050</p> <p>Tel: (013) 282 8943 Fax: 086 723 8337 Email: worldfocus@webmail.co.za</p> <p><u>Coalfield</u> WITBANK</p> <p><u>Farm, District</u> Doornrug 302 JS 13 10 42 3 WITBANK</p> | <p><u>Product</u> Bituminous</p> <p><u>Mine method</u> Opencast</p> | <p><u>Market</u> Local (Merchants)</p> <p><u>Transport</u> Road</p> <p><u>Holding Company</u> Nelpan (Pty) Ltd</p> |
| 4612 | <p>Just Coal (Bankfontein 48 Joint Venture) PO Box 22928 Middelburg 1050</p> <p>Tel: (013) 282 5742 Fax: (013) 282 5761 Email: info@justcoal.co.za</p> <p><u>Coalfield</u> WITBANK</p> <p><u>Farm, District</u> Bankfontein 375 JS 48 MIDDELBURG</p> | <p><u>Product</u> Bituminous</p> <p><u>Mine method</u> Opencast</p> | <p><u>Market</u> Local</p> <p><u>Transport</u> Road</p> <p><u>Holding Company</u> Just Coal CC</p> |
| 4436 | <p>Uitkomst Colliery Postnet Suite 97 Private Bag X6603 Newcastle 2940</p> <p>Tel: (034) 312 3703 Fax: (034) 312 3719 Email: wanda@uitkomst.co.za</p> | <p><u>Product</u> Bituminous</p> <p><u>Mine method</u> Underground</p> | <p><u>Market</u> Local</p> <p><u>Transport</u> Road</p> <p><u>Holding Company</u> Brandywine Valley Investments (Pty) Ltd</p> |

| Mine Code | Address and Other details | Seam Mined; Coal Type; Mining Method and Coal Preparation | Transportation of final product; Marketing; Remarks |
|-----------|---|--|--|
| | <p><u>Coalfield</u> UTRECHT</p> <p><u>Farm, District</u> Uitkomst 95 UTRECHT</p> | | |
| 1778 | <p>Waterval Colliery PO Box 2236 Vryheid 3100</p> <p>Tel: (034) 980 9505 Fax: (034) 982 2295</p> <p><u>Coalfield</u> VRYHEID</p> <p><u>Farm, District</u> Spitzkop 70 Waterval VRYHEID</p> | <p><u>Product</u> Bituminous</p> <p><u>Mine method</u> Underground</p> | <p><u>Market</u> Local</p> <p><u>Transport</u> Road</p> <p><u>Holding Company</u> Century Carbon</p> |
| 0689 | <p>Mining Contractors Vryheid PO Box 21 Vryheid 3100</p> <p>Tel: (034) 967 1758 Fax: (034) 967 1149</p> <p><u>Coalfield</u> VRYHEID</p> <p><u>Farm, District</u> Cliffdale of Vrede 154; Hlobane 506 VRYHEID</p> | <p><u>Product</u> Bituminous</p> <p><u>Mine method</u> Underground</p> | <p><u>Market</u> Local</p> <p><u>Transport</u> Road</p> <p><u>Holding Company</u> Mining Contractors Vryheid CC</p> |

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Tel: + 27 (0) 11 334 2691
Fax: +27 (0) 11 334 1540

10. OTHER MINERAL-RELATED ORGANISATIONS

Chamber of Mines
P O Box 61809
2107, Marshalltown

www.bullion.co.za

5 Hollard Street
2001, Johannesburg

Tel: +27 (0) 11 498 7100
Fax: +27 (0) 11 834 1884

South African Institute of Mining and Metallurgy
P O Box 61127
2107, Marshalltown

www.saimm.co.za

Chamber of Mines Building,
5th Floor
5 Hollard Street
Marshalltown

Tel: +27 (0) 11 834 1273
Fax: +27 (0) 11 838
5923/833 8156

Fossil Fuel Foundation of Africa
P O Box 41225
Craighall
2024

www.fossilfuel.co.za

53 Lancaster Avenue
Craighall Park
2196
Tel: +27 (0) 11 788 6818
Fax: +27 (0) 11 447 6148

South African Mining Development Association (SAMDA)
PO Box 2057
Parklands
2121

www.samda.co.za

The Riviera Road
606 Oxford cnr North Avenue
Ground Floor, Block 3, Office 2
Rosebank
2196

Tel: +27 (0) 11 486 0510
Fax: + 27 (0) 11486 3194

11. APPENDIX 1: STATISTICAL DATA

SOUTH AFRICA'S COAL PRODUCTION AND SALES, 1990 - 2011

| Year | Production kt | Local sales | | | Export sales | | | Total sales | |
|------|------------------|-------------|-----------------|-------------------|--------------|-----------------|-------------------|-------------|-----------------|
| | | Mass kt | Value R1 000 | Unit Value R/t | Mass kt | Value R1 000 | Unit value R/t | Mass kt | Value R1 000 |
| 1990 | 174 974 | 135 795 | 4 146 367 | 31 | 49 625 | 4 026 893 | 81 | 185 420 | 8 173 260 |
| 1991 | 178 464 | 132 604 | 4 505 897 | 34 | 49 265 | 4 279 399 | 87 | 181 869 | 8 785 295 |
| 1992 | 177 370 | 129 580 | 5 066 692 | 39 | 49 638 | 4 357 067 | 88 | 179 218 | 9 423 760 |
| 1993 | 183 963 | 131 812 | 5 193 062 | 39 | 52 189 | 4 520 897 | 87 | 184 002 | 9 713 960 |
| 1994 | 196 454 | 138 824 | 5 520 320 | 40 | 54 838 | 4 832 287 | 88 | 193 663 | 10 352 607 |
| 1995 | 205 639 | 146 030 | 6 338 789 | 43 | 59 676 | 6 478 785 | 109 | 205 706 | 12 817 574 |
| 1996 | 204 996 | 146 048 | 6 786 627 | 46 | 60 169 | 8 104 407 | 135 | 206 218 | 14 891 034 |
| 1997 | 219 267 | 159 688 | 7 810 624 | 49 | 57 696 | 8 476 765 | 147 | 217 384 | 16 287 389 |
| 1998 | 223 784 | 156 814 | 8 217 899 | 52 | 67 089 | 9 806 048 | 146 | 223 903 | 18 023 947 |
| 1999 | 222 271 | 155 338 | 8 307 617 | 53 | 66 279 | 9 373 577 | 141 | 221 616 | 17 681 195 |
| 2000 | 224 907 | 155 532 | 8 835 357 | 57 | 69 955 | 11 203 341 | 160 | 225 487 | 20 038 698 |
| 2001 | 223 495 | 152 162 | 9 564 521 | 63 | 69 304 | 17 031 522 | 246 | 221 466 | 26 596 043 |
| 2002 | 220 270 | 157 614 | 11 771 017 | 75 | 69 438 | 18 696 807 | 269 | 227 052 | 30 467 824 |
| 2003 | 237 872 | 168 942 | 13 243 714 | 78 | 71 556 | 13 490 623 | 189 | 240 499 | 26 734 337 |
| 2004 | 243 372 | 178 675 | 13 644 186 | 76 | 67 947 | 14 494 479 | 213 | 246 621 | 28 138 666 |
| 2005 | 244 988 | 173 437 | 14 878 140 | 86 | 71 442 | 21 155 176 | 296 | 244 879 | 36 033 316 |
| 2006 | 244 832 | 177 049 | 16 245 874 | 92 | 68 747 | 21 620 934 | 314 | 245 796 | 37 866 808 |
| 2007 | 247 666 | 182 770 | 19 718 642 | 108 | 67 675 | 24 447 656 | 361 | 250 445 | 44 166 298 |
| 2008 | 252 699 | 197 033 | 30 104 161 | 153 | 60 631 | 44 706 204 | 737 | 257 664 | 74 810 365 |
| 2009 | 250 538 | 184 677 | 34 442 650 | 187 | 60 539 | 31 006 559 | 512 | 245 216 | 65 449 209 |
| 2010 | 257 206 | 186 366 | 33 702 229 | 181 | 66 770 | 37 477 184 | 561 | 253 136 | 71 179 413 |
| 2011 | 252 757 | 177 705 | 37 285 726 | 210 | 68 807 | 50 548 678 | 735 | 246 512 | 87 834 404 |
| 2012 | 258 576 | 185 669 | 43 921 277 | 237 | 76 009 | 52 226 904 | 687 | 261 677 | 96 148 181 |

Source: DMR, Mineral Economics Directorate – production and exports figures

12. WORLD COAL RESERVES, PRODUCTION AND EXPORTS, 2012

| COUNTRY | RESERVES ¹ | | | PRODUCTION ² | | | EXPORTS ² | | |
|---------------|-----------------------|--------------|----------|-------------------------|------------|----------|----------------------|------------|------|
| | Mt | % | Rank | Mt | % | Rank | Mt | % | Rank |
| Australia | 76 400 | 8.9 | 4 | 420.7 | 5.4 | 4 | 301.5 | 24.0 | 2 |
| Canada | 6 582 | 0.8 | 10 | 66.6 | 0.9 | 12 | 34.8 | 2.8 | 7 |
| China | 114 500 | 13.3 | 3 | 3 549.1 | 45.3 | 1 | 10.5 | 0.8 | 9 |
| Colombia | 6 746 | 0.8 | 9 | 89.5 | 1.1 | 11 | 82.2 | 6.5 | 5 |
| India | 60 600 | 7.0 | 5 | 595.0 | 7.6 | 3 | 1.5 | 0.1 | 11 |
| Indonesia | 5 529 | 0.6 | 12 | 442.8 | 5.7 | 6 | 382.6 | 30.5 | 1 |
| Kazakhstan | 33 600 | 3.9 | 7 | 126.0 | 1.6 | 9 | 31.9 | 2.5 | 8 |
| Poland | 5 709 | 0.7 | 11 | 144.1 | 1.8 | 8 | 7.1 | 0.6 | 10 |
| Russia | 157 010 | 18.2 | 2 | 353.9 | 4.5 | 5 | 134.2 | 10.7 | 3 |
| South Africa* | 30 156 | 3.5 | 8 | 258.6 | 3.3 | 7 | 76.0 | 6.1 | 6 |
| Ukraine | 33 873 | 3.9 | 6 | 71.6 | 0.9 | 10 | # | - | - |
| USA | 237 295 | 27.6 | 1 | 934.9 | 11.9 | 2 | 114.1 | 9.1 | 4 |
| Other | 92 938 | 10.8 | - | 778.0 | 9.9 | - | 78.9 | 6.3 | - |
| Total | 860 938 | 100.0 | - | 7 830.8 | 100 | - | 1 255 | 100 | |

Source: ¹BP Statistical Review of World Energy, June 2013

²Coal Information 2013, International Energy Agency – OECD/IEA

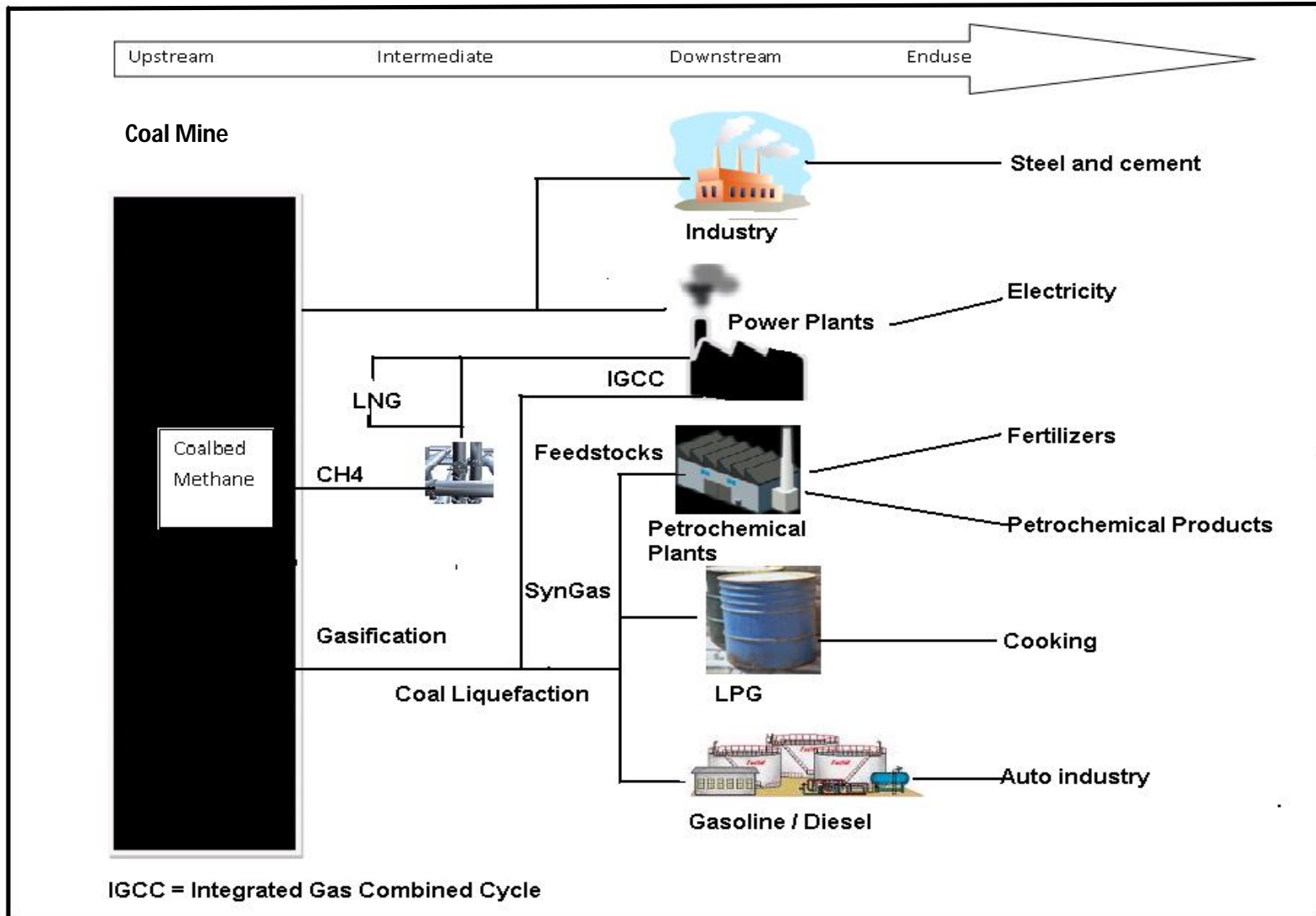
*DMR, Mineral Economics Directorate – production and exports figures

13. SOUTH AFRICA'S ANTHRACITE PRODUCERS

| Name of Colliery | Coalfield | Contact Details |
|------------------------------------|---------------|---|
| Elitheni Coal (Pty) Ltd | MOLTENO INDWE | PO Box 211177 The Fig Tree 6033 PORT ELIZABETH Tel: (041) 368 9650 Fax: (041) 368 9651 |
| Kiepersol Colliery | ERMELO | 12A Theo Mocke Street PIET RETIEF 2380 Tel: (011) 461 6536 Fax: 086 617 3115 General Manager Unni Krishnana Email: unni.krishnan@jindalafrika.com |
| Leeuw Mining and Expl - Vaalkrantz | VRYHEID | Postnet Suite 464 Private Bag X51 Bryanston 2012 Tel: 011 317 1700 Fax: 011 463 4759 Mine Manager: Xolani Khanyezi Contact Person: Francois Blom Email: francois@keatonenergy.co.za |
| Magdalena & Aviemore | KLIPRIVIER | PO Box 684 DUNDEE 3000 Tel: (034) 212 1455 Fax: (034) 212 1232 |
| Nkomati Anthracite | KANGWANE | PO Box 2244 WITBANK 1035 Tel: (013) 691 1144 Fax: (013) 691 1148 Mine Manager: Mr M Minnaar |
| Springlake Colliery | KLIP RIVER | PO Box 43 DUNDEE 3000 Tel: 034 621 6000/9 Fax: 034 621 6035 Mine Manager: Chris Goosen Email: chris.goosen@shandukacoal.com |

| | | |
|-------------------------------|----------|---|
| Tendele Coal Mining (Pty) Ltd | SOMKHELE | Postnet Suite 208 Private Bag 013 MTUBATUBA 3935 Tel: 082 895 1406 Fax: 082 895 1386 Mine Manager: F Manyanga |
| Zululand Anthracite Colliery | NONGOMA | Private Bag X71 ULUNDI 3838 Tel: (035) 870 0302 /874 7300 Fax: (035) 870 0805 |

14. A SIMPLIFIED SOUTH AFRICA'S COAL VALUE CHAIN AND ITS APPLICATIONS



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