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Green Field - South Africa Coal Opportunity





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## Brief about the Soutpansberg Region

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- The Soutpansberg coalfield is situated north of the Soutpansberg mountain range in the Limpopo Province.
- It has a length of 190km and extends from Waterpoort in the west to the Kruger National Park in the east.
- The Karoo Sequence rocks sit in a very complex structural setting, uncomfortably overlying the Soutpansberg Group and with significant associated faulting and folding. Generally the Karoo Sequence dips to the north at 3-20° and almost always terminates against east/west trending faults on the northern margins.
- Coal seams are thick interbedded seam coal and mudstones in the west and grade to a multiple seam type consisting of two discrete seams in the Tshikondeni area.



## Brief about the Soutpansberg Region

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- The coal, where developed, is generally bright and high in vitrinite and the coal rank increases to the east.
- In the Eastern area two major coal seams are developed, the Main Coal Seam and the Lower Coal Seam.
- The Main Seam has been the only economic seam due to its coking properties and medium phosphorous content.
- The lower coal seam also has coking properties but the high phosphorus content is not acceptable to the steel



## Brief about the Waterberg Region

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- The Waterberg coalfield is situated some 400km north west of Johannesburg and was discovered by water drilling in the 1920s.
- This is a fault bounded basin with dimensions of approximately 90km east-west by 40km north-south.
- The major coal bearing horizons of the Ecca Group are the Volksrust Formation and the Vryheid Formation
- The vitrinite content of the coal to the top of the Volksrust Formation results in the upper zones having a semi-soft coking coal yield as well as coal for thermal use.
- The Vryheid Formation coal seams are composed of predominantly dull coal with minor carbonaceous mudstone intercalations again supplied as thermal coals, mostly for domestic use.

# Mine Location



## Soutpansberg Mining

### Concession

1. Groenvalley
2. Klipputgat

## Waterberg Mining

### Concession

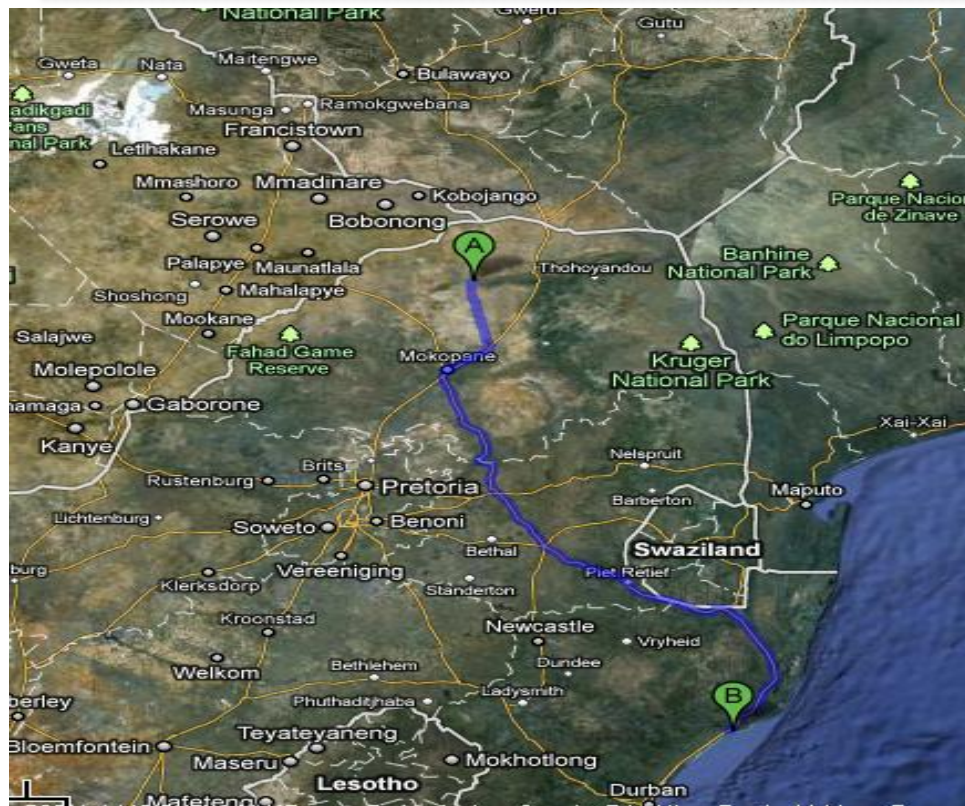
1. Poeskop
2. Nieuwe Holland
3. Smithfield
4. Kameelfontein

## Brief about the Mine

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- The Smith fields coal mining concession is within the Waterberg Basin Coal fields.
- The mining concession is spread over 2734.03 acres of land
- 6 drilling holes have been drilled in the said mining concession.
- Boreholes ID 1919906, 1919907, 1919908, 1919909, 1919909, 1919910 & 1919911
- The Thickness of the seam is from 5 m to 12.24 m
- The said mine is an underground mine with initial seam of coal being found at a depth of 40 meters.
- Adjoining to the mine there are another 4 mining concession (Nieuwe, Poeskop, Groenvalley, Klipputgat) owned by the same company but no exploration has been done.

# Smithfield Mining Concession



- Sekoko have just been granted a Mining License, CIH (Namane Project) is in application for Mining License, Sasol have major landholdings in the area for Coal Mining, Eskom have Coal Deposits and so does Exxarro with the Grootegeluk mine

Region	Bowen Basin
Coal Type	Thermal & Semi Soft Coking Coal
EPC Area	2734 Hectares
Estimated Coal Resource	500 million
Quality of Coal	GCV 6850 - 7040
Ash	12% to 15%
Moisture	2% to 4%
Sulphur	1.1% to 1.25%
Drilling Report	6 bore holes have been drilled.
Logistic Connectivity	1311 Kms from Richards Bay and 1500 Kms from Durban





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