PETROLEUM EXPLORATION AND PRODUCTION ACTIVITIES IN SOUTH AFRICA

Restriction Notice on Applications

As of the 28 of June 2018, no new applications for Technical Cooperation Permits, Exploration Rights and Production Rights will be received until a notice of invitation for application is published.
This affects all acreage offshore
It does not affect:
- Reconnaissance permits - i.e. spec surveys/multi-client surveys
- Applications made before the 28th June 2018
- Current permit and right holders' exclusive rights to apply for exploration rights (from a TCP) or production rights (from an ER)

The above-mentioned restriction does not apply to onshore areas under restriction notice dated 3rd February 2014.

Mineral and Petroleum Resources Development Act, No.28 of 2002.

Role of Petroleum Agency SA

Under section 71 of the above Act, Petroleum Agency SA has been appointed the designated Agency, with the following responsibilities:
- Promotion and regulation of exploration and production on and offshore
- Receive applications, evaluate and recommend the award of permits and rights
- Review, evaluate and recommend approval of EMPs
- Monitor compliance of licence conditions
- Maintain and add value to the national petroleum exploration and production database
- Acquire reconnaissance data
- Collect all prescribed fees

Permits and rights

The above Act defines the following permits and rights:
- Reconnaissance Permit - 12 months, non-exclusive
- Technical Cooperation Permit - 12 months, exclusive desk-top study, exclusive right to apply for Exploration Right
- Exploration Right - exclusive, transferable, 3 years, renewable for a maximum of 3 periods of 2 years each
- Production Right - exclusive, transferable, 30 years, renewable

PANDE & TEMANE GAS FIELDS

Combined reserves in excess of 5.5 Tcf.
Now operated by Sasol/ENH partnership.

Pande gas field
Temane gas field
Gas pipeline
- Exports about 350 million scf/day

ONSHORE RIGHTS

REF NUM	TYPE	CLIENT NAME
12/2/209	TCP	Bulwark Oil & Gas
12/2/210	TCP	Bulwark Oil & Gas
12/2/211	TCP	Bulwark Oil & Gas
12/2/213	TCP	Bulwark Oil & Gas
12/2/214	TCP	Bulwark Oil & Gas
12/2/215	TCP	Bulwark Oil & Gas
12/2/217	TCP	Bulwark Oil & Gas
12/2/272	TCP	Monazite Industries
12/2/273	TCP	Motouane Energy
12/2/276	TCP	Sasol
12/2/277	TCP	Sasol
12/2/280	TCP	Motouane Energy
12/2/281	TCP	Motouane Energy
12/2/282	TCP	Motouane Energy
12/2/283	TCP	Motouane Energy
12/2/284	TCP	Motouane Energy
12/2/285	TCP	SANPC
12/2/286	TCP	SANPC
12/2/287	TCP	SANPC
12/2/288	TCP	SANPC
12/2/289	TCP	SANPC
12/2/290	TCP	Blue Diamonds
12/2/291	TCP	Blue Diamonds
12/3/270/1B	ER	Afro Energy
12/3/271/1B	ER	Afro Energy
12/3/272/1B	ER	Afro Energy
12/3/294/1A	ER	Rhino Oil
12/3/318/1A	ER	Rhino Oil
12/3/367	ER	Bastion
12/3/368	ER	Bastion
12/3/369	ER	Bastion
12/3/370	ER	Karabelo Energy
12/4/007	PR	Tetra4 (Pty)Ltd

ONSHORE APPLICATIONS

REF NUM	TYPE	CLIENT NAME
12/2/234	TCP	Rhino Oil
12/2/238	TCP	Solium Energy
12/2/239	TCP	Solium Energy
12/2/271	TCP	Light of the Nation
12/2/274	TCP	Temla 13 CC
12/2/278	TCP	Legacy Exploration
12/2/292	TCP	Monazite Industries
12/2/293	TCP	Silver Wave Energy
12/2/294	TCP	Silver Wave Energy
12/2/295	TCP	Silver Wave Energy
12/2/296	TCP	Blue Diamond
12/2/298	TCP	OrangeBasin
12/2/299	TCP	OrangeBasin
12/2/300	TCP	Edrose Consulting
12/3/031/1A	ER	Tetra4 (Pty)Ltd
12/3/202	ER	Bundu Gas and Oil
12/3/208	ER	Falcon Oil and Gas
12/3/214/1A	ER	Gold One Africa
12/3/262/1C	ER	Booi Brothers
12/3/288/1A	ER	Twala Mnyamande
12/3/315/1B	ER	Motouane Energy
12/3/345	ER	Crowne Royale Energy
12/3/350	ER	Rhino Oil
12/3/373	ER	Imbokodo
12/3/374	ER	Imbokodo
12/3/376	ER	Panoro2B
12/3/377	ER	Rhino Oil and Gas
12/3/378	ER	Rhino Oil and Gas
12/3/379	ER	Rhino Oil and Gas
12/3/381	ER	Plateau Helium SA
12/3/382	ER	Plateau Helium SA
12/3/383	ER	Afro Energy
12/3/386	ER	Motouane Energy
12/3/388	ER	H2Au Limited
12/3/389	ER	H2Au Limited
12/3/390	ER	Oakleaf Energy
12/3/391	ER	Motouane Energy
12/3/392	ER	Motouane Energy
12/3/393	ER	Motouane Energy
12/3/395	ER	Serpentine Energy
12/3/396	ER	Booi Brothers
12/3/397	ER	Aerios Energy
12/3/398	ER	Aerios Energy
12/3/399	ER	Aerios Energy
12/4/016	PR	Motouane Energy
12/4/017	PR	Thungela Operations

KUDU GAS FIELD

BW Kudu (56%) Namcor (44%)
Discovered in 1974 by a Chevron / Regent /Soekor consortium. The reservoir comprises Barremian (Early Cretaceous) aeolian sandstones with average porosities up to 22% at 4400m.

Kudu gas field
Proposed pipeline
Oranjemund
Alexander Bay

AZINAM(37.5%) NAVITAS PETROLEUM(37.5%) ORANGEBASIN ENERGIES (25%)

Prospects/leads mapped in the drift sequence 362ER

SUNBIRD (Operator) (76%) PETROSA (24%) 003PR

BG INTERNATIONAL (60%) PETROSA (30%) IMBOKODO (10%) 248ER

SHELL (40.5%) QATAR (40.5%) UMBONO (10%) OK ENERGY (9%)

IBHUBESI GAS FIELD

Ibhubesi gas field comprises fluvial type channels and lobes of Albian to early Cretaceous age. Currently, this production right is under a Gas Market Development Plan with an Integrated Field Development Plan (IFP) ongoing.

SUNGU-SUNGU Petroleum (100%) 223ER

Reprocessed 2D seismic data. Currently evaluating prospectivity in the drift sequence

Shell / PetroSA 224ER

Interpretation of the recently acquired 3D seismic data is ongoing. Several prospective areas have been identified in the drift sequences

E-CE GAS FIELD (PetroSA 100%)

Originally the Sable oil field, gas was produced from this Aptian age deep marine channel sandstone reservoir. Block 9 production has been suspended.

ORIBI/ORYX OIL FIELD (PetroSA 100%)

Submarine fan deposits of Albian (Early Cretaceous) age. Production has been suspended.

PETROSA BLOCK 9 061ER

Ongoing exploration and appraisal of oil and gas discoveries.

F-A GAS FIELD & SATELLITES (PetroSA 100%)

Block 9 production has been suspended. Early Cretaceous shallow marine sandstone reservoirs. Separate 91km pipelines conveyed gas and condensate to the PetroSA GTL synfuels refinery at Mossel Bay where petrol, diesel, kerosene, etc has been produced. F-O Field, 4 wells drilled.

PADDAVISSIE FAIRWAY BLOCK 11B/12B

Two discoveries on the Brulpadda and Luiperd wells confirmed a world class petroleum province, while three giant prospects remain untested in the Aptian-Albian basin floor fans of Block 11B/12B. Further prospectivity was identified to the east and northeast, following more recent seismic surveys across the license area.

MAIN STREET 1549 (100%) 013PR

Two deep water, gas and condensate Apt-Albian discoveries, commercialisation is currently under discussion

PETROSA - BLOCK 11a 061ER

Early Cretaceous shallow marine gas fields currently under appraisal.

NEW AGE ALGOA (50%) 201ER
RIFT Petroleum (50%)

Prospectivity evaluation of the synrift and post rift sequences ongoing

BG INTERNATIONAL (55%) IMPACT AFRICA (45%) 252ER

SASOL (100%) 236ER

Purchased 2D multi-client seismic data. Interpretation of this data and legacy data ongoing.

BG International Impact Africa 252ER

Soutpansberg

Resource type: CBM Operator: BlackGold
Current status: Early exploration stages for CBM

Waterberg

Resource type: CBM (Coalbed Methane)
Main Operator: Thungela Operations
Current status: Feasibility studies for commercialisation of the resource

Highveld/Ermelo

Resource type: CBM & Conv.Sandstone
Operator: Afro Energy (Pty) Ltd
Current status: Production feasibilty studies including pilot production wells

Anglo Operations

Smaldeel Mining Right 'gas', producing helium

Wits Basin / Free State gas field

Resource type: Biogenic Gas
Main Operator: Tetra4 (Pty)Ltd
Current status: Gas Production drilling and market finalisation

Karoo Basin

Resource type: Shale gas
Applicants: Falcon & Bundu
Current status: Under application

Deep tight gas shale play?
Dry gas in fractured carbonaceous Ecca Group shales (Fort Brown Formation) on the flank of a dolerite sill. Tested flow rate of 1.84 million scf/day at 2072 psi, (2563m to 2612) but showed depletion.

BOTSWANA COALBED METHANE (CBM) EXPLORATION

Large Potential Resource

PetroSA synfuel refinery

36 000 bbl/d (Crude equivalent)

Coega Industrial Development Zone

Possible gas pipeline

Engen

105 000 bbl/d

Sapref

165 000 bbl/d

Chevron

100 000 bbl/d

SFF Bulk oil storage

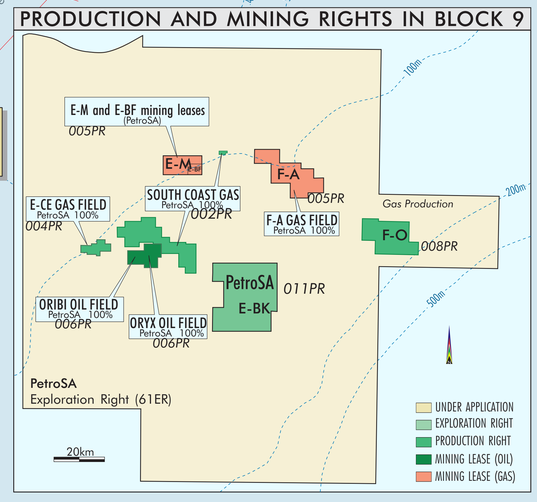
42 million bbl

Steel mill
Coal export terminal
Oil pipeline
Limit of Great Karoo Basin
Limit of SA exclusive economic zone 200 nautical miles (370km)
Median line
Possible gas pipeline
Possible 005 pipeline

Atlantic Ocean
Indian Ocean
SOUTH AFRICA
LESOTHO
SWAZILAND
BOTSWANA
NAMIBIA
ZIMBABWE
MOZAMBIQUE

Francistown, Morupule, Mmamabula, Palakwane, Orkgestad, Gaborone, Aranos, Kimberley, Maseru, Mbabane, Komatipoort, Maputo, Pretoria, Johannesburg, Secunda, Sasolburg, Evander gas field, Bloemfontein, Richards Bay, Durban, Port Shepstone, Port Elizabeth, East London, Mossel Bay, Saldanha Bay, Cape Town, Oranjemund, Alexander Bay, Ibhubesi gas field, Sungu Sungu, Kruger National Park, Kgalagadi Transfrontier Park, Karoo Basin, Tuli, Ladysmith, Newcastle, Engen, Sapref, Western Cape, Northern Cape, Eastern Cape

PRODUCTION AND MINING RIGHTS IN BLOCK 9



ONSHORE / OFFSHORE KEY

- PETROLEUM EXPLORATION WELL
- OIL SHOWS
- COAL FIRED POWER STATION
- GAS TURBINE POWER STATION
- POSSIBLE FUTURE GAS PIPELINE
- SEISMIC LINES
- KOEBERG NUCLEAR POWER PLANT
- COAL FIELD
- ONSHORE OPEN ACREAGE
- OFFSHORE OPEN ACREAGE
- AREAS UNDER APPLICATION
- TCP TECHNICAL COOPERATION PERMIT
- ER EXPLORATION RIGHT
- PR PRODUCTION RIGHT
- MINING LEASE (OIL) - Block 9
- MINING LEASE (GAS) - Block 9

SOUTH AFRICAN AGENCY FOR PROMOTION OF PETROLEUM EXPLORATION AND EXPLOITATION
PETROLEUM AGENCY SA

N
200km
200 Isobaths in metres

Visit our website at www.petroleumagencysa.com for more information

This map does not constitute a final authority.
Requests for further details should be addressed to the Chief Executive, Petroleum Agency SA.

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