Exploring the Eastern Coastline of South Africa

presented by

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International interest in the region
and the reason for such interest....
Impact overview – area of operations

Approximately 76,000 km²
Tugela River – Today
The Tugela Cone – a huge pile of sediment

Previous wells - some with oil shows

Pockmarks
Oil Seeps

Fugro Seep Map
Available Seismic Data

Charles Ramsden
Director

4th Offshore Licensing Round
Hydrocarbon Evidence

Pockmarks
Hydrocarbon Evidence

Chemotrophic Mounds
Hydrocarbon Evidence

Possible gas chimneys
Leads and Prospects

Jubilee Field
Reserves estimate
600 MMBls – 1.8BnBls.

Dolphin Prospect
Tugela Area
South African Licencing System

- **TCP**
  - 1 year

- **Exploration Permit**
  - 3 years

- **Exploration Permit Extension**
  - 2 years

- **Exploration Permit Extension**
  - 2 years

- **Exploration Permit Extension**
  - 2 years

**Environmental Management Programmes (‘EMP’)**
License Application Process

Complete application and lodge with PASA

PASA considers application

Accept

Notify and consult with industry and affected parties

Prepare EMP

120 days

PASA reviews EMP in consultation with State Departments

Approve EMP

PASA sends recommendation of approval or rejection to Minister

Approve Exploration Right

Reject Exploration Right

Reject EMP

APPEAL PROCESS
## Surveying Restrictions

### Environmental Window

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<th>Jan</th>
<th>Feb</th>
<th>Mar</th>
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Legislative - Full compliance EMP requirements (informative, transparent, methodical)
Pro-active measures - Marine Animal Monitoring and Mitigation Plan (Northern Explorer)
- Research & Investigation

- Bio-Physical
  - Migration routes
  - Oceanographic features
  - Sensitive communities
  - Benthic assemblages
  - Areas of high endemism

- Socio-Cultural
  - Identification
  - Baseline assessment
  - Economic trends
  - Cultural/historical features
  - CSR
Impact Assessment of Nesting Loggerhead (Caretta caretta Linnaeus) & Leatherback (Dermochelys coriacea Linnaeus) Turtles off the East Coast of South Africa

PRELIMINARY RESULTS FOR A COMBINED ASSESSMENT OF ALL SEVEN SOUTHERN HEMISPHERE HUMPBACK WHALE BREEDING STOCKS
Finally Underway - 2011

Planned seismic programme – 5,000 kms
However

1,900 kms recorded
2011 Results

Dolphin Prospect
2011 Results

Tiger prospect

AVO Anomaly?
2011 Results

Northern mid-slope turbidite
2011 Results

Same feature – 5 kms away (Leviathan)
2012

Planned seismic programme

PGS
M/V Sanco Spirit
Geostreamer©
Seismic Acquisition Progress
Agulhas Current
Modified Programme
2012 Results - Classic Basin Architecture

K/T Boundary

Near Base Cretaceous

Jurassic

Post-rift

Syn-rift

Pre-rift
Cross-section Schematic

Based on schematic produced by the Petroleum Agency in 2003
Mid-Slope Mound
Another Example
And Others
Hydrocarbon Indications?
Transkei and Algoa Area

Transkei and Algoa
46,027 Km²
Transform (conjugate) Margins

- Zaedyus
- Romanche
- Jubilee
- Sealion
- Agulhas-Falkland
- Transkei ??

Data: SIO, NOAA, U.S. Navy, NGA, GEBCO
© 2012 Google
© 2012 MapLink, Tele Atlas
US Dept of State Geographer

27°13'41.95" S 22°23'03.76" W elev -3544 m eye alt 11129.25 km
GETECH Reconstruction

Berriasian – Early Cretaceous palaeogeography

DSDP wells
- Late Jurassic TOC’s up to 6%
- up to 200m of organic shales
Transkei Dip Line

Deep-water fan system? exhibiting striking AVO anomalies on 1970’s vintage seismic data

Possible Jurassic tilted fault blocks (source kitchen?)
Exploration Right Application

14,378 sq. kms. in shallow water

East of the Sable oilfield that has Produced 40MMbls to date

Currently reprocessing older seismic data
West Bredasdorp

- **EM Field** – 600 bcf
  - Oryx – peak production 10,500 bopd
  - Oribi - peak production 20,000 bopd
  - Sable Oil field. 40+ Mmbls. Peak prod. 35,000 bopd

Non-explored depocentre defined on gravity mapping

Lower Cretaceous oil shows during drilling

Gas seeps as seen on seismic
IRVING, Texas--(BUSINESS WIRE)--Exxon Mobil Corporation (NYSE:XOM) announced today that its affiliate, ExxonMobil Exploration and Production South Africa Limited, will soon begin exploration activities offshore South Africa.

The ExxonMobil affiliate signed an agreement with Impact Africa Limited (Impact), a subsidiary of Impact Oil & Gas Limited, to acquire a 75 percent participating interest in the Tugela South Exploration Right and will become operator. Under the agreement, the affiliate also has the right to acquire 75 percent participating interests in future exploration rights in three offshore areas covered by technical cooperation permits currently held by Impact. These exploration rights and the affiliate’s participating interest in them are subject to South African government approval.
Multi-beam Bathymetry and Piston Coring
2D and 3D Seismic
Drilling 2017 ??

[Diagram showing offshore drilling locations and equipment.]

IMPACT OIL AND GAS
Likely ‘Big Oil’ Drilling Activity
That’s it

Thank You

Thanks to:

ExxonMobil

SOUTH AFRICAN OIL AND GAS ALLIANCE

IMPACT OIL & GAS