#### exploration & production



## TIMOR LESTE DRILLING

Project Consultation 23 February 2010

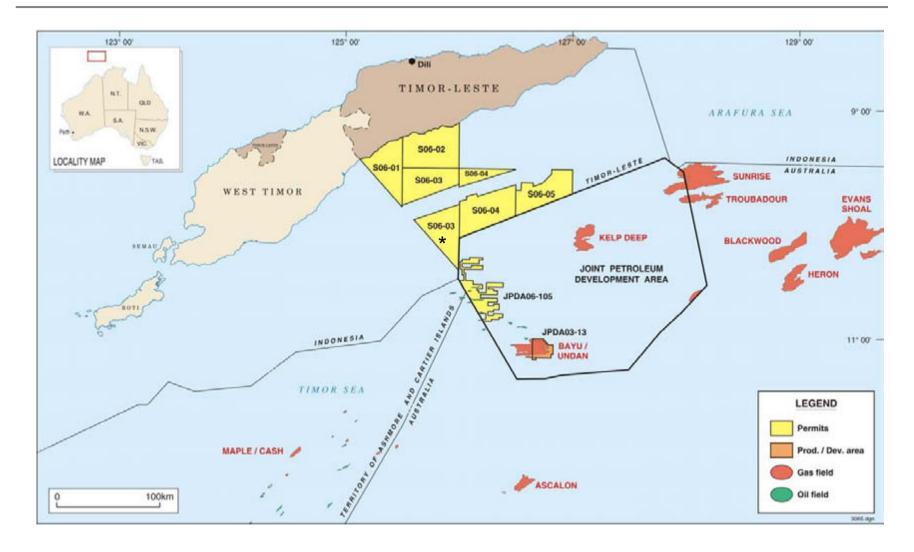


#### Purpose

- To provide information about planned drilling activity
- Discuss Potential Environmental Risks and mitigation strategies
- Provide Eni contact details for further information



#### Location

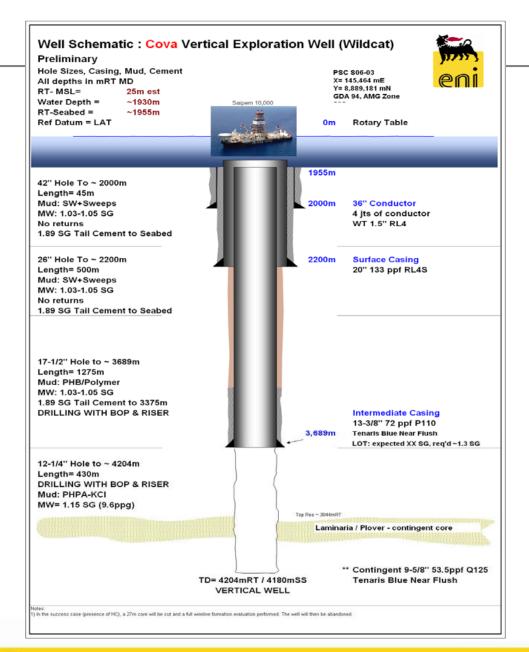




#### Cova Details

- Start date: July 2010
- Drill Rig: Saipem 10,000
- Duration of drilling campaign: 45 days
- Water Depth: 1930m
- Target Depth: 4204m
- Support vessels
- Water Based Drilling Muds
- Drill cuttings discharged at sea bed and from rig









### SAIPEM 10,000

- Built 2000
- Ultra deep water Drillship
- Dimensions
  - Length 227.6m
  - Breadth 42m
  - Height 19m
- Accommodation 172 People
- Dynamic Position Fixing

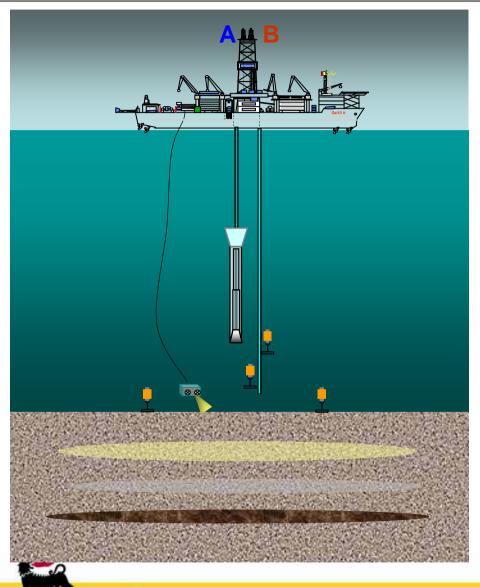


### Primary Support Vessels

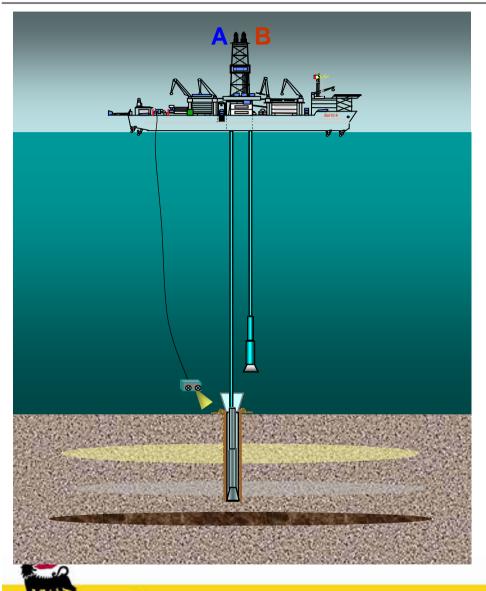
- Transport consumables, fuel and drilling tool
- Operate from Darwin Port
- 1 vessel will be with the Saipem 10000 at all times during drilling
- Sea Witch
  - Contractor: Deep Sea Supply
  - Current Contract: Eni Indonesia
  - Maximum Speed
  - Cargo: 1600t



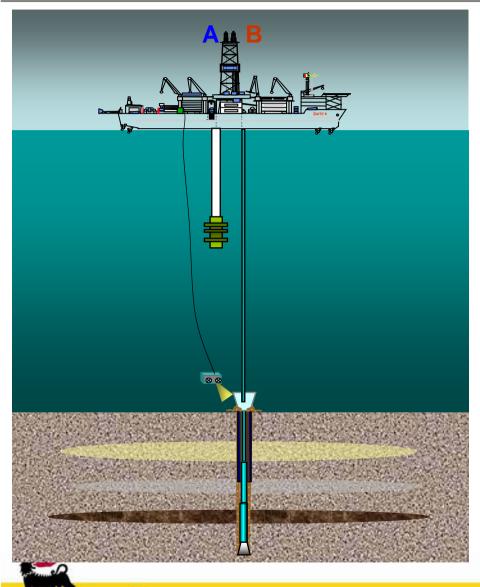




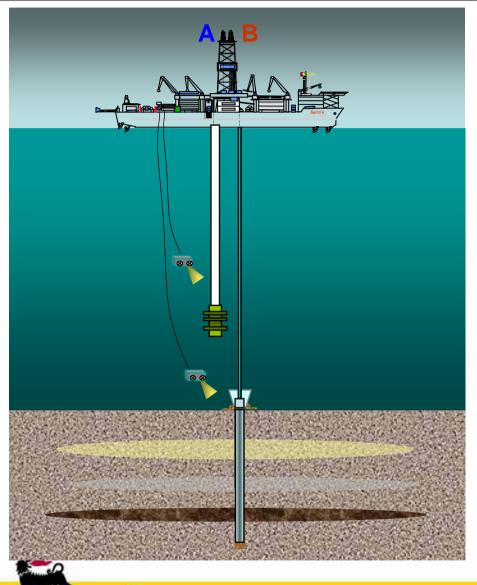
- Rig A:
  Drill 42" hole and Run
  36" Conductor
- Rig B:Deploying Beacons



- Rig A:
  Cementing 36"
  Conductor
- Rig B: Running 26" BHA

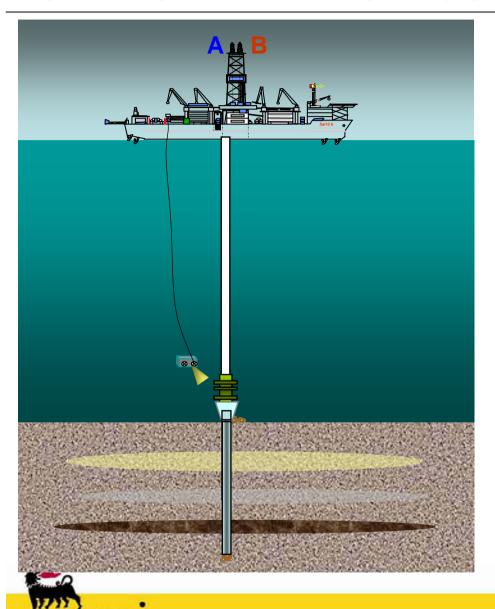


- Rig A: Running BOP
- Rig B: Drilling 26" Hole



- Rig A: Running BOP
- Rig B: Run & Cement 20" Casing

## DUAL ACTIVITY RIG - CONNECTED PHASE



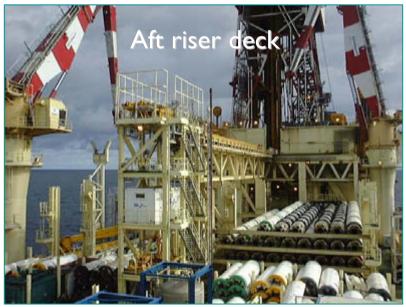
- Rig A:
  BOP latched on
  wellhead
  - 17-1/2" hole section
  - 12-1/4" hole section
- Rig B:
   No direct activity on the well

After latching the BOP, the rig operates like a single activity rig with off-line capability.

exploration & production

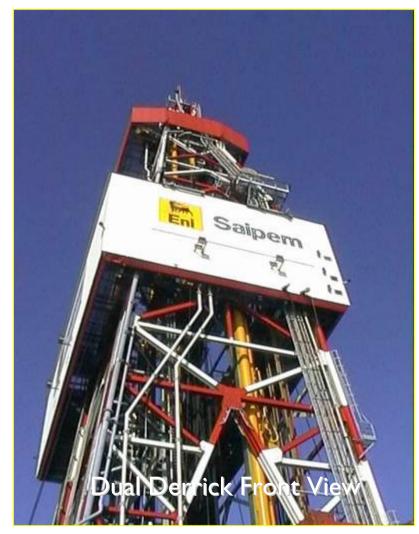






#### Dual Derrick Side View

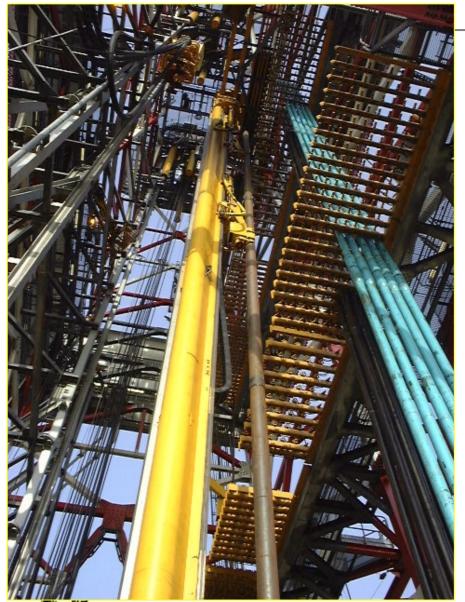




exploration & production

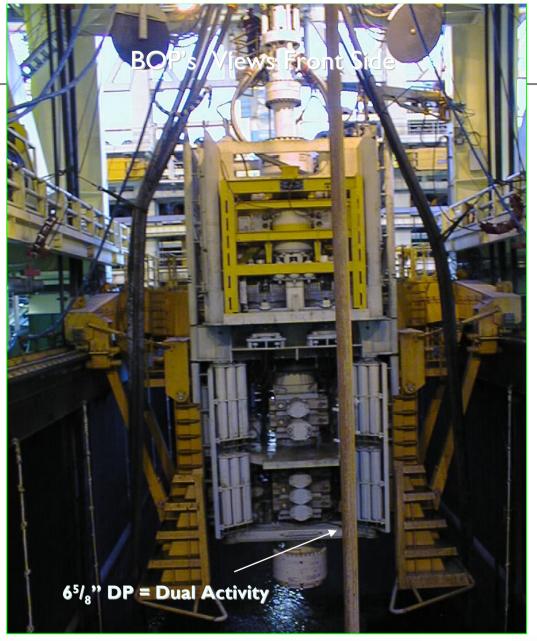


Finger Boards - Derrick Racking System Views exploration & production



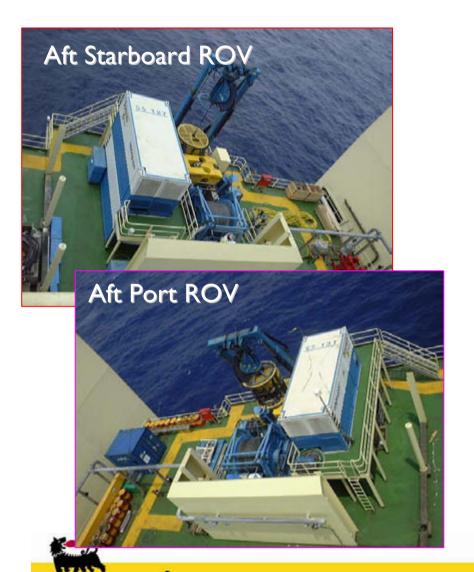


Automatic Derrick Man Views exploration & production





### Remotely Operated Vehicle

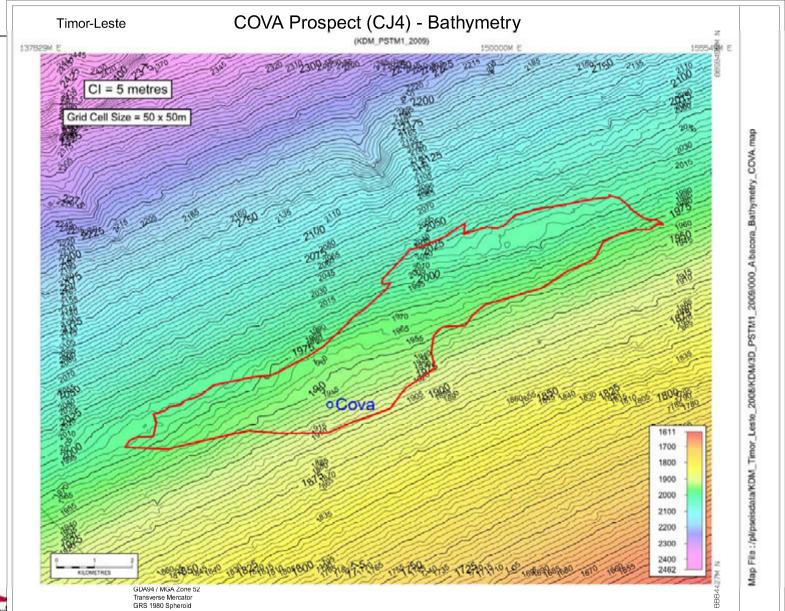




### **Existing Environment**

- Deep water environment
- Marine fauna includes:
  - Whales:
  - Dolphins
  - Turtles
  - Birds
  - fish
  - other species
- Several of these species are protected by international treaties or legislation.





tion



## **Existing Environment: Marine Mammals**



Bryde's Whale





**Dolphin species** 



**Humpback Whale** 



**Blue Whale** 



Killer Whale exploration & production

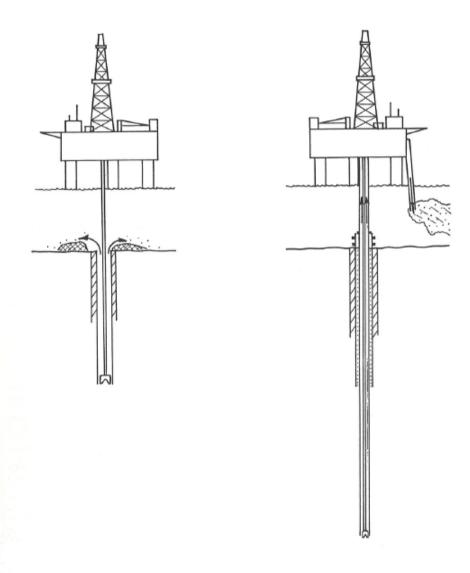


## **Emissions and Discharges**

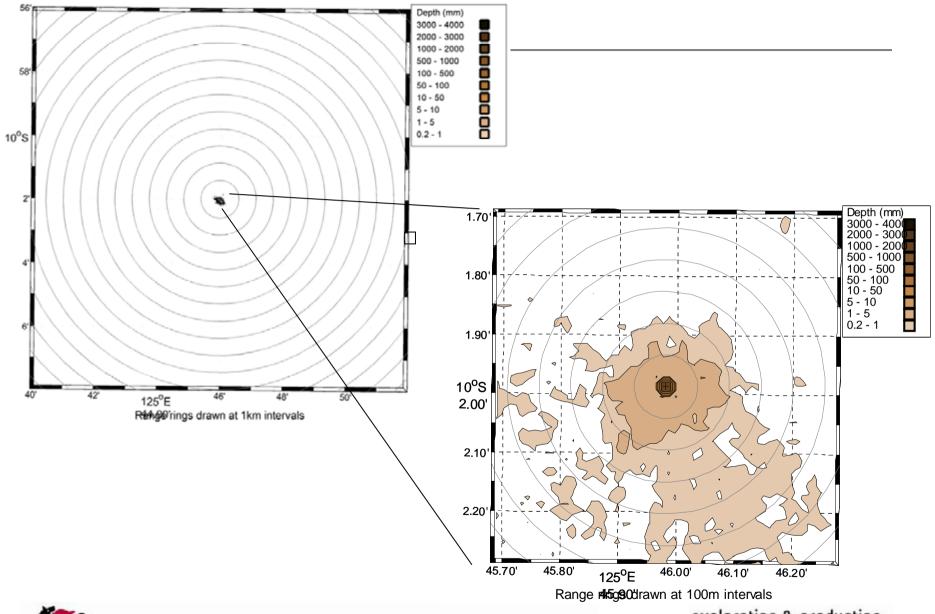
- Drilling discharges:
  - Drilling fluids
  - Cuttings
- Atmospheric emissions
- Cooling water
- Desalination brine
- Sewage
- Domestic waste water
- Putrescible wastes



## Drill Cuttings Discharge









#### Other Environmental Hazards

- Accidental hydrocarbon discharges
  - Well blowout
  - Vessel Collision
  - Fuel or chemical Transfer
- Solid and hazardous wastes
- Marine pests
- Physical disturbance to marine biota



## **Further Information**

#### **Documents submitted**

Draft Framework of Reference

#### Documentation to be submitted to DNMA

- Environmental Impact Statement
- Environmental Management Plan
- Environmental Monitoring Plan
- Oil Spill Contingency Plan

#### **Eni Timor Leste:**

- Tony Heynen, Country Representative
  - Tel: +670 331 0847
  - Email: tony.heynen@eniaustralia.com.au

