

## Central Business Unit

### Keeping the Cash Flowing

**Jon Young**  
General Manager  
Central Business Unit

**Santos**

## Disclaimer & Important Notice

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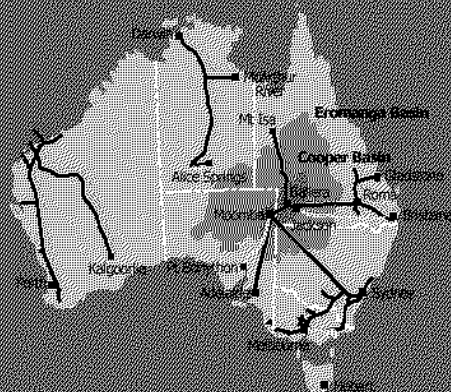
## Key Messages

- World class petroleum resource
- Cooper Basin in harvest mode
- Aggressive cost management
- Significant oil potential
- Material gas exploration potential
- Strategies are in place to implement

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## Overview

The Cooper Basin - a world class hydrocarbon province



- OGIP: 18 tcf (gross)
- OOIP: 1500 mmbbls (gross)
- Cumulative Production:
  - Gas: 6.8 tcf (gross)
  - Oil: 264 mmbbls (gross)
- Total JV Investment: \$9 billion

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## Delivering on 2001 Strategies

In 2001, the Cooper Basin strategic focus was on the following

<b>Volume</b>	Extend plateau gas production	<b>~550 PJ</b>
<b>Price</b>	Increase gas and premium product prices	<b>&gt; 10%</b>
<b>Growth</b>	Grow liquids production	<b>+10%</b>
<b>Costs</b>	Minimise cost increases	<b>~\$200 m</b>

Business Unit  
Consolidation

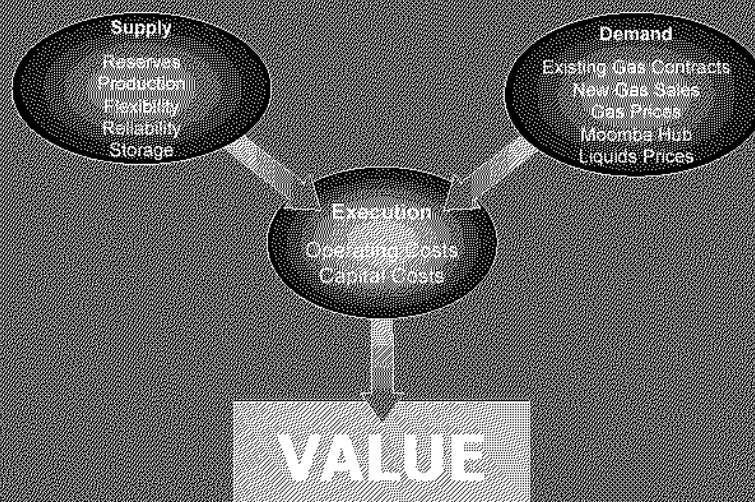
Leadership  
Team

Structure

Processes

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## Value Creation

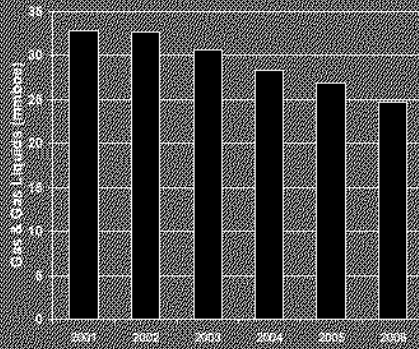


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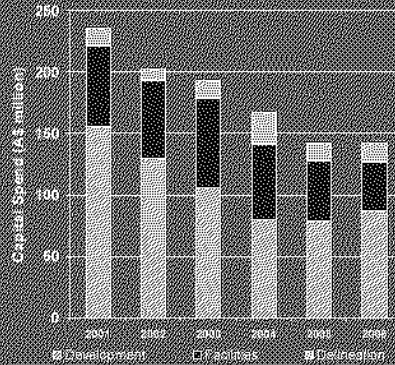
## Cooper Basin Gas Business

As gas production comes off plateau, annual capital spend will reduce by ~ \$85 million by 2006

**Production**



**Capital Spend**

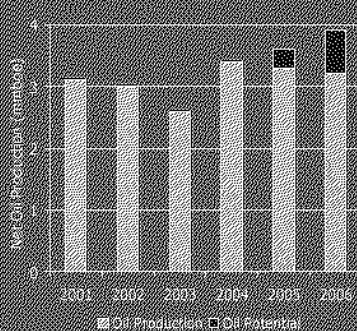


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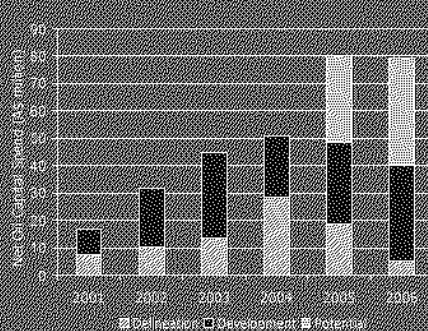
## Cooper Basin Oil Business

The Cooper Basin oil business has significant growth potential in the near term

**Production**



**Capital Spend**



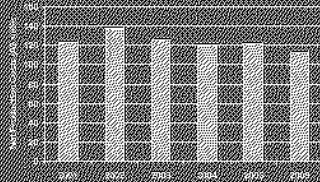
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## Cost Management - Production Costs

Programs are in place to reduce production costs by ~ \$20 million p.a. by 2006...



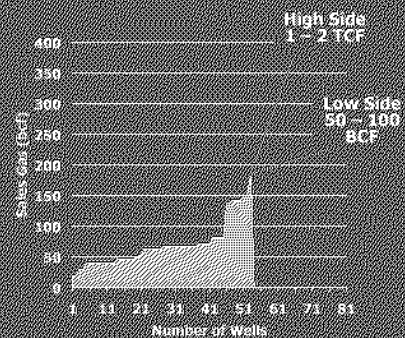
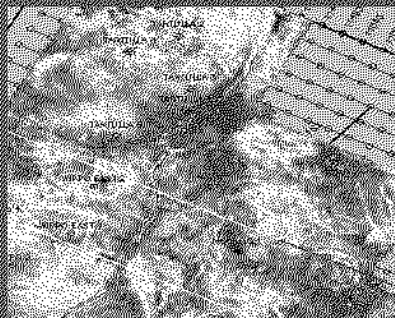
- Maintenance Improvement Program
- Shared Services
- Fuel & Loss
- Operations Support
- Wellhead Telemetry
- Asset Control Enhancement



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## Exploration Potential

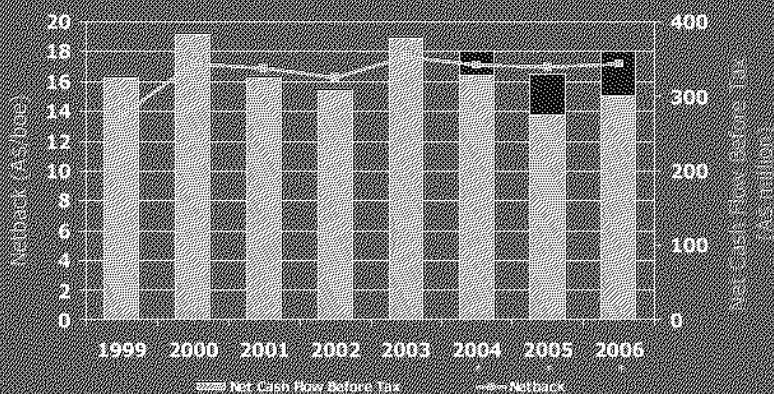
Whilst conventional gas plays are mature, emerging plays have material potential



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## Keeping The Cash Coming

Cost reduction and price strategies are maintaining margins and cashflow...




\* Based on average 2003 oil prices and exchange rates

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## Key Messages

- World class petroleum resource
- Cooper Basin in harvest mode
- Aggressive cost management
- Significant oil potential
- Material gas exploration potential
- Strategies are in place to implement

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# Western Business Unit

## Doubling Production in Mid 2005

**Paul Moore**  
General Manager Western Business Unit

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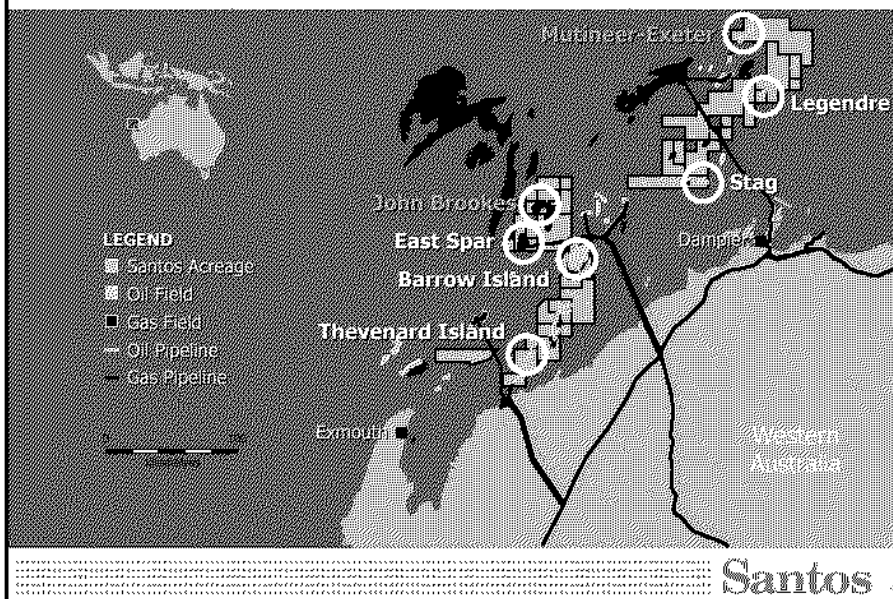


## Progress – 2003

	Program Focus	Results
<b>Fields</b>	<ul style="list-style-type: none"> <li>Delivered production and netback as forecast</li> <li>Prove up additional reserves</li> <li>Transition to offshore production operator</li> </ul>	<ul style="list-style-type: none"> <li>Successful infill drilling program</li> <li>Flat production cost forecast in 2004</li> <li>Proved up Mutineer-Exeter</li> <li>Appraised John Brookes (Thomas Bright)</li> <li>Establish Perth office</li> <li>Mutineer-Exeter sanctioned</li> <li>Moving to first oil in 2005</li> </ul>
<b>Gas Commercialisation</b>	<ul style="list-style-type: none"> <li>Deliver additional gas contracts</li> </ul>	<ul style="list-style-type: none"> <li>92 PJ Ainta gas contract</li> </ul>
<b>Exploration Focus</b>	<ul style="list-style-type: none"> <li>Increase Santos exposure to higher impact oil business</li> </ul>	<ul style="list-style-type: none"> <li>Successful Carnarvon Basin oil program</li> <li>Increased acreage in Browse Basin and deep water Houtman Basin</li> </ul>

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## WBU Field Locations



## Carnarvon Oil

### Stag

#### Field Priorities

- 2003: increased equity and offset decline
  - Globex 12.5% equity purchased Oct 2003
- Minimise production rate decline via infill drilling
  - Stag 25H drilled in 2003
- Three sidetrack and recompletions planned in 2004

### Legendre

#### Field Priorities

- 2003: infill well to increase rate/reserves
  - Drilled LN4H well (April '03)
  - Further opportunities being screened
- Maximise production rate through GOR & WOR management
- Possible infrastructure synergies
  - Drill Ajax exploration prospect (Dec '03)

Operator: Apache (Santos 66.7%)

Operator: Woodside (Santos 22.6%)

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## Carnarvon Oil

### Barrow

#### Field Priorities

- 2003: ongoing optimisation
  - Improve performance of waterflood via:
    - Upward recompletions and refracs
    - Prioritised water injection
- Upgrade surface piping network for long remaining field life
- Plan for possible future synergies with Gorgon development

### Thevenard

#### Field Priorities

- Pressure maintenance at Roller and Saladin to enhance production
- Reduce opex to maintain profitability
- Farmout exploration acreage to promote drilling and extend field life

Operator: Chevron-Texaco (Santos 29.6%)

Operator: Chevron-Texaco (Santos 35.7%)

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## Carnarvon Gas

### East Spar

#### Field Priorities

- Infill drilling and dovetail to John Brookes
- East Spar 1 watered out (Oct '03)
- Start-up East Spar 6 to maintain field deliverability (Dec '03)
- New Alinta gas sales contract (92 PJ)

Operator: Apache (Santos 45%)

### John Brookes

#### Field Priorities

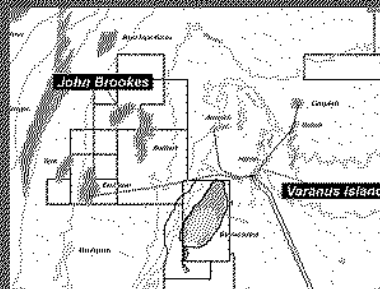
- 400 PJ – 1000 PJ gas resource
- Distance 35 km from East Spar, 55 km from Varanus Island
- Successful appraisal Q1 2003
- Further appraisal by year end
- Large number of potential domestic gas customers
- Probable first gas in 2005?

Operator: Apache (Santos 37.5%)

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## John Brookes Gas Development

- Production 150 TJ/day with design potential of 240 TJ/d
- Initial capex of approximately A\$170 m
- Unmanned wellhead platform in 70 m water
  - Two - three conventional wells
  - Two further wells drilled to maintain deliverability later
- Single 3-phase export pipeline to Varanus
- Upgrade of the existing Varanus Island gas plant

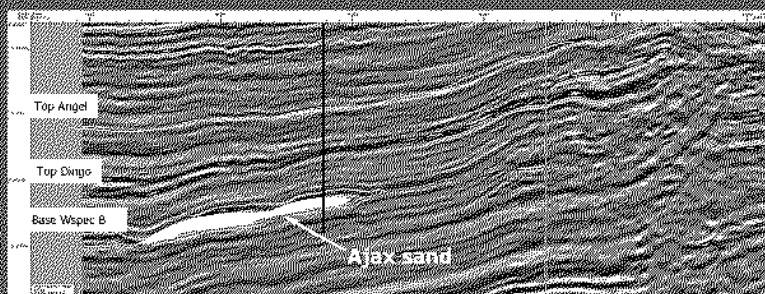
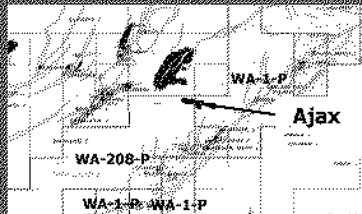


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## Carnarvon Exploration: Ajax Prospect

Spud late December '03

Probability of  
Commercialisation: 9%  
P90-P10 resource: 1-70 mmbbls  
Working Interest: 22.6%  
Gross Well Cost: A\$5 million

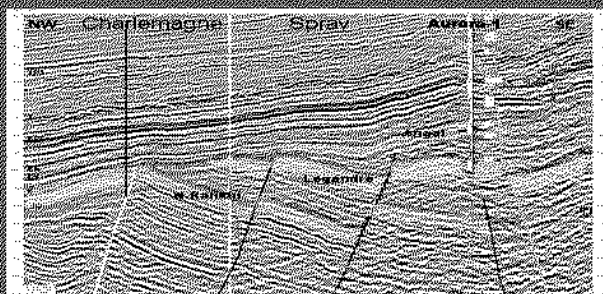
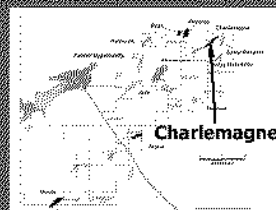


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## Charlemagne Prospect

Late 2004

Probability of  
Commercialisation: 7%  
P90-P10 resource: 2-52 mmbbls  
Working Interest: 33.4%  
Gross Well Cost: A\$8 million



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## Mutineer-Exeter

### Delivering new reserves and projects

Mutineer is 10 km NE of Exeter and 40 km NNE of the Woodside operated Cossack-Pioneer FPSO.

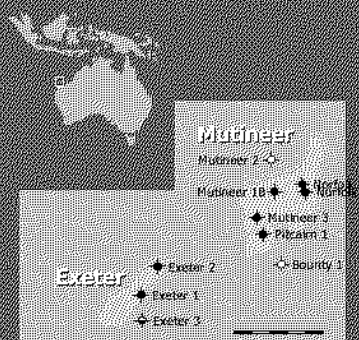
#### RESERVES 100% TERMS

1P	2P	3P
55	101	169

#### KEY METRICS

CAPEX A\$million (gross)	OPEX A\$million (gross) over 7 years	PEAK DAILY RATE BOPO
480	800	100,000

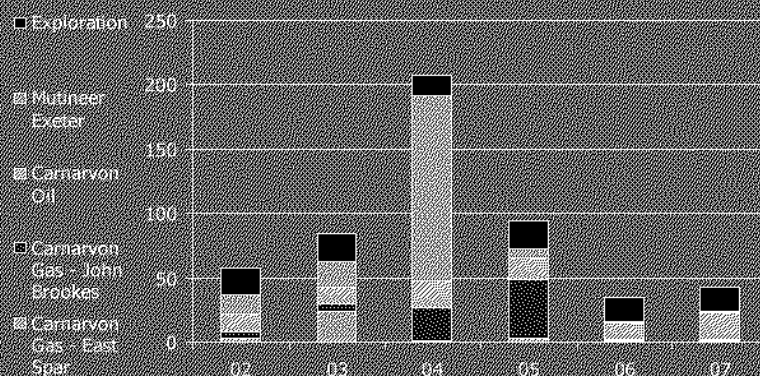
- Dev. approved 14 Oct 2003
- Production mid 2005
- Operator: Santos (33.4%)



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## 2002-2007 Capital Profile

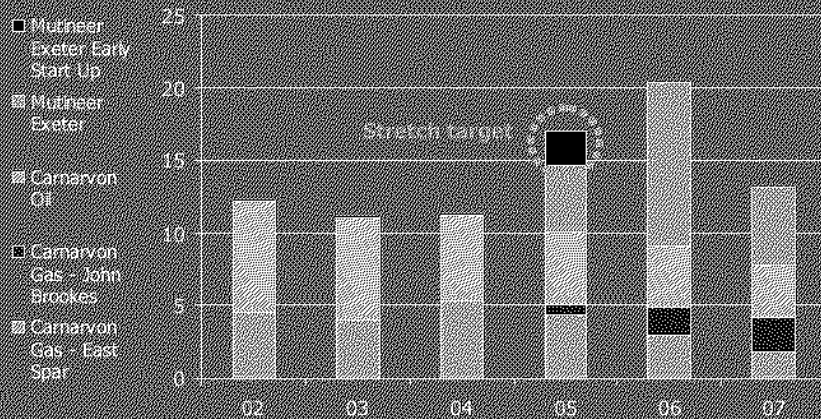
### Santos share (\$ million)



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## 2002-2007 Production Profile

Santos share (Mmboe)

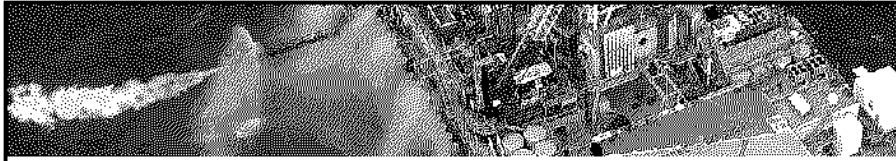


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## Conclusion

- Stable base gas business
- Mutineer-Exeter will triple oil production in mid 2005

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# Northern Business Unit

## Doubling Production

**Rod Rayner**  
General Manager Northern Business Unit

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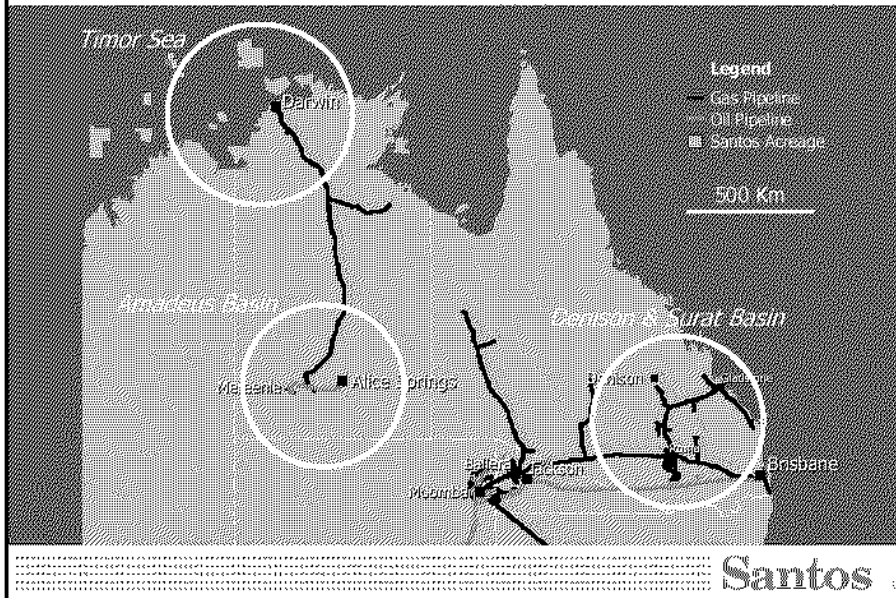
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## Santos Northern Interests



## Delivering Firsts for Santos

- 100% growth by 2007
  - Santos' first LNG project
  - Santos' first CSM project
- Timor Sea
  - Gas commercialisation
  - Oil development
- Denison & Surat
  - Existing asset growth
  - New growth plays

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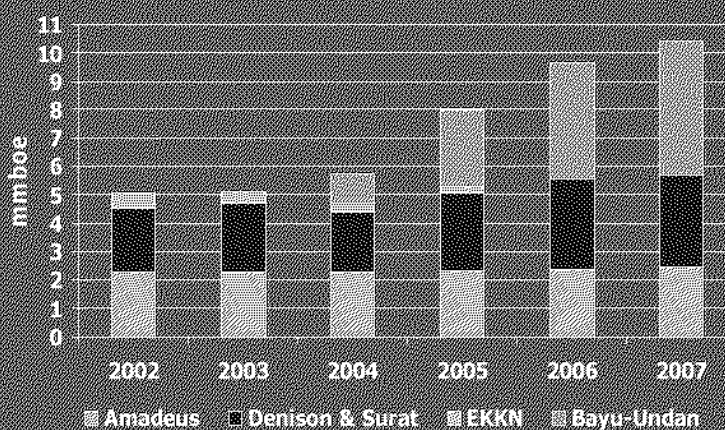


## Delivering Results

Area	Achievements
Bayu-Undan	<ul style="list-style-type: none"> <li>• Liquids project on schedule for Q2 2004 production</li> <li>• LNG contract in place 2003</li> <li>• Pipeline and LNG plant under construction</li> </ul>
Timor Gas	<ul style="list-style-type: none"> <li>• Development plan for Petrel/Tern fields</li> <li>• Operatorship of Evans Shoal</li> </ul>
Denison & Surat	<ul style="list-style-type: none"> <li>• Scotia field producing</li> <li>• Churchie field discovered and producing</li> </ul>
Amadeus	<ul style="list-style-type: none"> <li>• Record gas sales</li> </ul>

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## Production to Double



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## Secure Domestic Gas Contracts

- High quality customers
- Sustained record of supply
- Increasing gas for power generation
- Spot market emerging

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## Scotia – Prime CSM Project

- Santos is currently one of largest CSM players
- First production Q2 2002
- CS Energy contract
- 10 wells producing
- Current prod rate 10-11 TJ/d
- 20 wells producing by 2005
- Target prod rate 22 TJ/d
- 2P Reserves 154 PJ  
@ 31/12/02



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## Scotia – Keys to realising value

- Well costs

- 03 program realised 25% reduction in well costs
- Wells drilled and completed in less than 5 days

- Ongoing production costs

- Low staffing levels – currently generate ~\$2m per person
- Target to reduce Opex/boe by 33% by 2006

- Maximising production rates

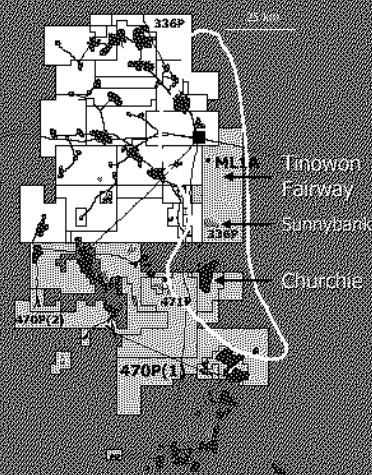
- 5 wells drilled in 2003, 5 planned for 2004



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## Tinowon Play – Growth Opportunity

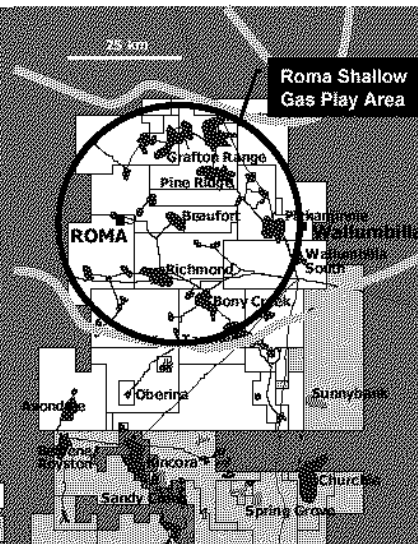
- Santos 51% interest in Churchie field
- Reviewing opportunities in Roma area ATP 336P and PLs (Santos 46.25–85%)
- Sunnybank 6 test of bypassed gas and oil pay in other Permian and Triassic reservoirs



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## Roma Shallow Gas – New Play

- Pleasant Hills 8A producing for 15 years from target zone
- Pilot – evaluation of existing wellbores
- Exploration/appraisal drilling
- Peak production 30 MMscf/d using existing infrastructure
- Long term business and cash flows



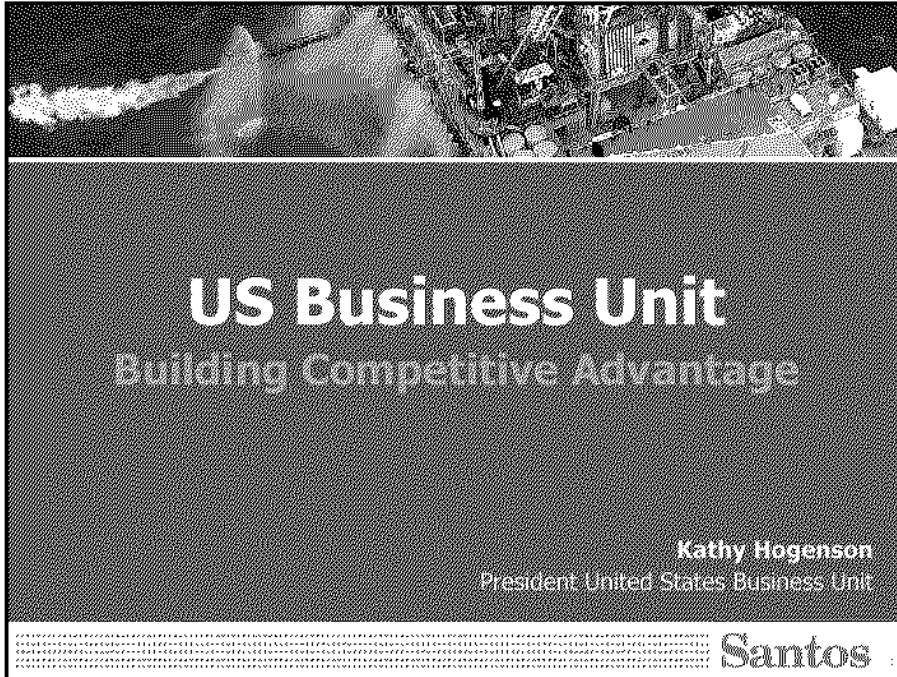
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## Onshore Objectives

- Achieve 21% production growth by 2007 in existing areas
- Evaluate Roma shallow gas play
- Enhance understanding of Tinowon
- Further refinement to ensure ongoing low cost operations
- Continue to supply NT market requirements
- Realise market opportunities as they emerge

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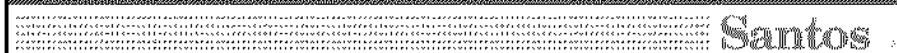




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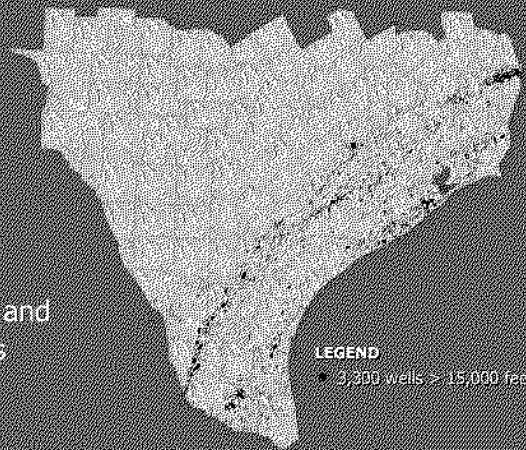
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## Why Is Santos In The US?

Concentrating efforts in the Texas Gulf Coast Region

- World's largest gas market
- Leveraging core competencies from Cooper Basin gas experience
- Multiple play types and productive intervals



LEGEND

• 3,300 wells > 15,000 feet

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## Why Did Santos Acquire Esenjay?

An exploration prospect generator

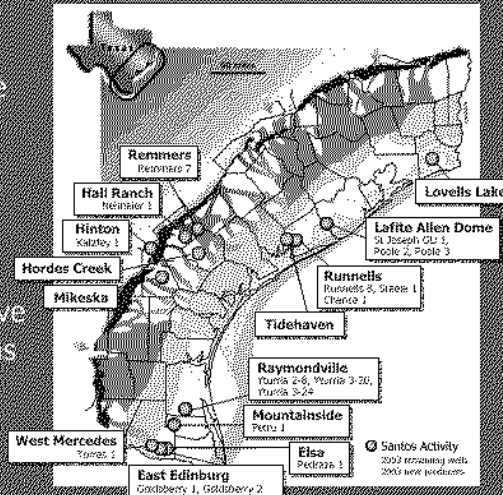
- Accelerated time to assemble drillable prospect inventory
- Ownership in a significant new field discovery
- Exposure to prolific Frio, Wilcox and Vicksburg trends
- E&P talent and ability to attract top performers

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## What Has Santos Accomplished Since Acquiring Esenjay?

Focused on geopressured  
Frio and Wilcox

- Drilled 47 wells in core area
- Completed 60% as producers
- Identified two impactful new venture play areas

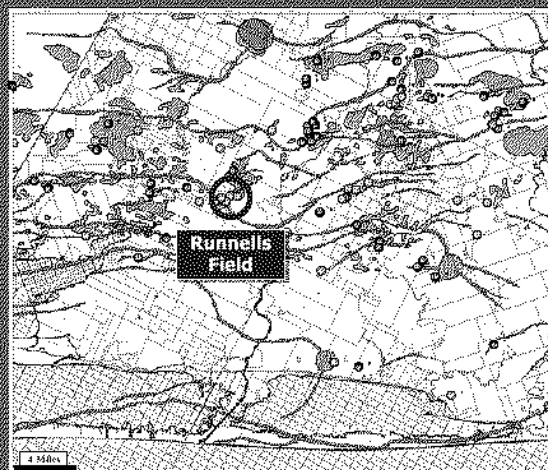


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## Building Competitive Advantage

Matagorda County 2001-2003 drilling

- 147 wells drilled
- 89 wells deeper than 10,000'
- 39 wells deeper than 12,000'  
(23% Santos)
- 19 wells deeper than 14,000'  
(36% Santos)

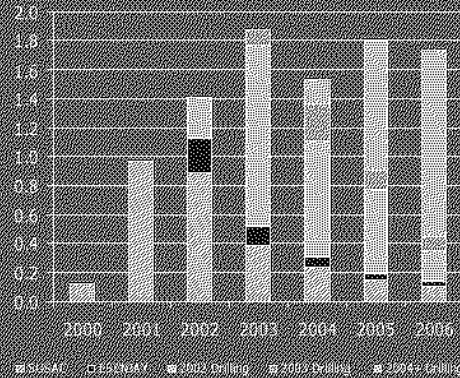


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## Production Growth

### USBU Production (mmboe)

- 300% growth, to 2.1 mmboe in 2003
- Generated US \$3.9 MM average monthly operating cash flow in 2003
- Production in 2004, >1.5 mmboe

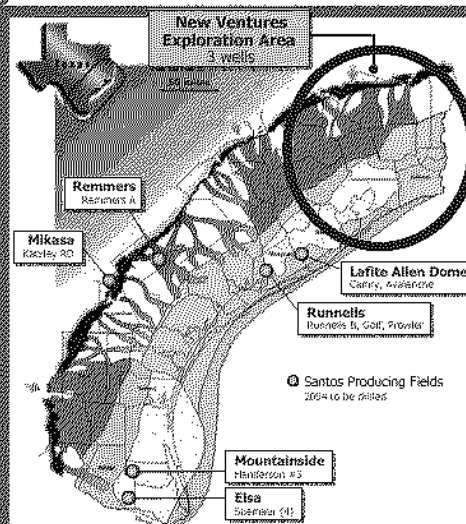


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## 2004 Activity Includes Core Area & New Venture Drilling

### LEGEND

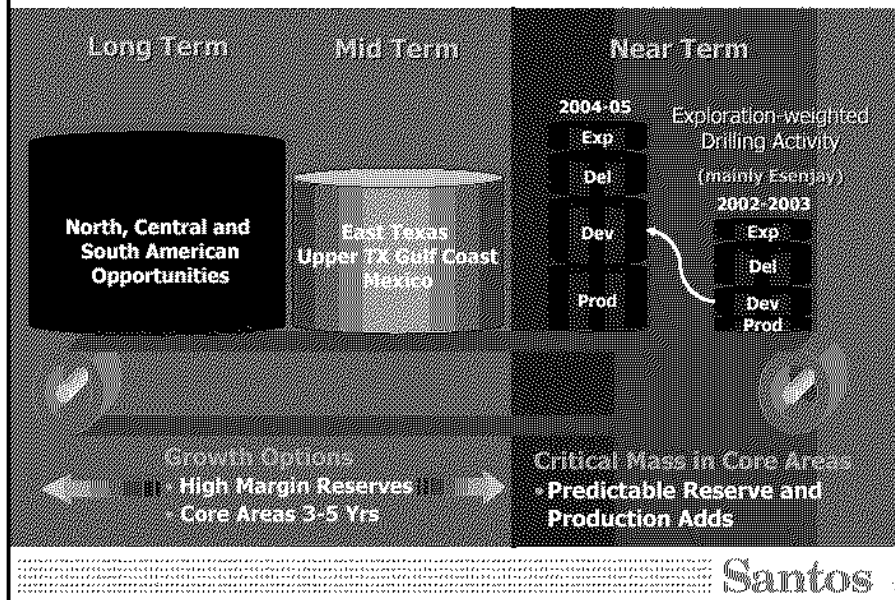
- Major fluvial axis
- Mixed fluvial & deltaic facies
- Mixed progradational & aggradational deltaic facies
- Dominantly aggradational barrier & sandplain facies
- Shelf platform facies
- Pro-delta facies
- Frp outcrop
- Sediment supply



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## US Business Unit Growth Vehicles

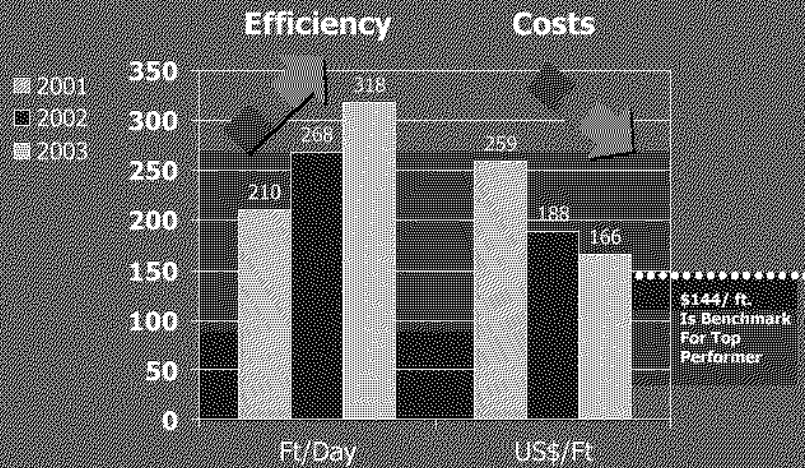


## Identified Challenges & Action Steps

Challenges	Action Steps
<ul style="list-style-type: none"> <li>• Predictability and Repeatability</li> <li>• Finding &amp; Development Costs</li> <li>• Resource Impact</li> <li>• Performance Assessments</li> <li>• High Cash Margins</li> </ul>	<ul style="list-style-type: none"> <li>• Producing Acquisition Upside</li> <li>• Assessment Techniques /Drilling</li> <li>• High Grade/New Ventures</li> <li>• Industry Benchmarks by Trend</li> <li>• Opex Reduction/Hedging</li> </ul>

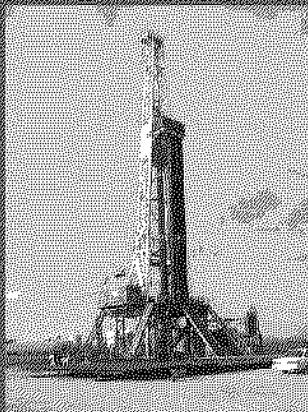
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## Santos Has Moved Toward "Best-in-Class" Drilling Cost Performance



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## Santos Drilling & Production Operations



Nabors 777 rig at  
the Poole location



Poole central  
production facility

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## Conclusions

- Completed assimilation of Esenjay
- Poised to deliver growth through acquisitions & drill bit
  - New prospects developed within Esenjay play areas
  - New venture drilling to begin in 2004
  - Targeted trends for preferred property acquisitions
- Taking action steps to address identified challenges
  - Building competitive advantage

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