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Unocal Corporation

Howard Weil 2004 Energy Conference

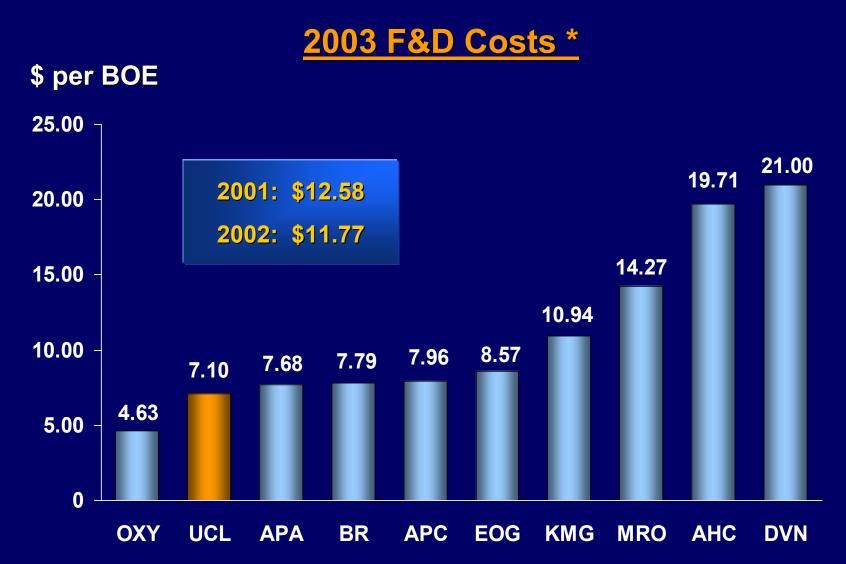
New Orleans, Louisiana March 30, 2004

- This presentation may include discussion about future goals and projections of future earnings, cash flow, capital spending, crude oil and natural gas production, reserves, recoverable quantities, ultimate recovery, and gross resource potential of oil and gas prospects. These goals and projections are "Forward Looking Statements," and are based on Unocal's internal plans and forecasts. The actual results in the future will be influenced by the inherent risks of our businesses and the economic situations in the various countries where we operate, or attempt new business opportunities. The actual results will be determined by a number of factors, including: oil and natural gas commodity prices, the company's drilling success rate, the company's success in capturing new business opportunities and the timing of new project developments, the decline rates of present fields and future resource discoveries, and the costs incurred for future exploration, development, and production operations. For a more complete discussion of these and other risk factors, refer to Unocal Corporation's 2003 Form 10-K, pages 56-65.
- The U.S. Securities and Exchange Commission permits oil and gas companies, in their filings with the SEC, to disclose only proved reserves that a company has demonstrated by actual production or conclusive formation tests to be economically and legally producible under existing economic and operating conditions. Unocal uses certain terms in this presentation, such as "resource potential" and "discovery volumes," that the SEC's guidelines strictly prohibit us from including in filings with the SEC. U.S. investors are urged to consider closely the disclosure in Unocal's 2003 Form 10-K. Copies of the company's SEC filings are available from the company by calling 800-252-2233. The reports are also available on the Unocal web site, www.unocal.com.

#### Unocal: Assets of a Major

- Strong Asia gas production with a large and growing development inventory
- Significant deepwater Gulf of Mexico discoveries and prospects
- Major new production in 2005 (Azerbaijan, Bangladesh, Deepwater Gulf of Mexico, Thailand oil project)
- A restructured, focused and sustainable North American business

#### F&D Results Continue to Improve



<sup>\*(</sup>Unproved property, development and exploration costs/revisions, improved recovery and discoveries & extensions)

#### Unocal New Production 2005 - 2006

**Thailand** – oil expansion and 3<sup>rd</sup> gas pipeline

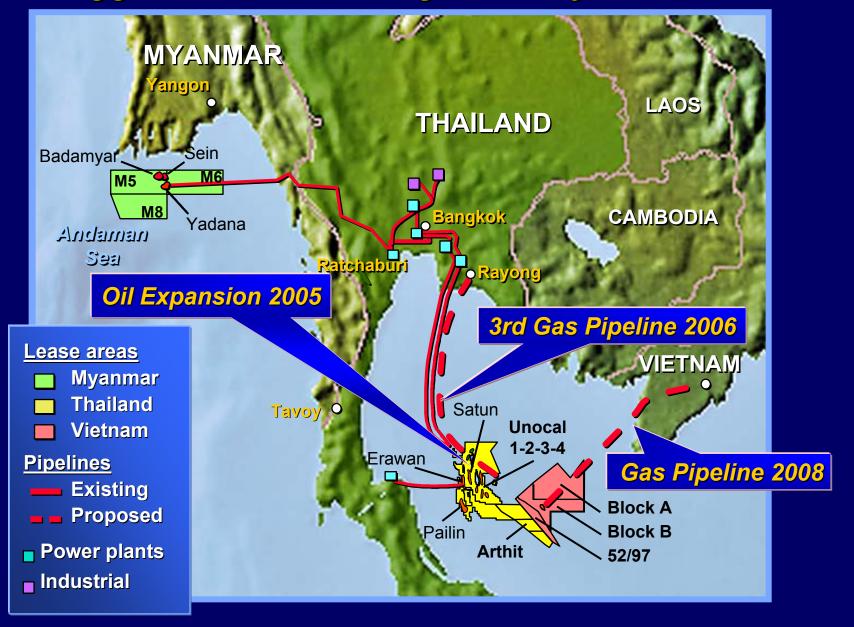
Azerbaijan - AIOC Phases 1 & 2 (oil)

Bangladesh – Moulavi Bazar (gas)

**Deepwater Indonesia** – West Seno Phase 2 (oil), new gas developments

Deepwater Gulf of Mexico - Mad Dog, K2 (oil)

#### Thailand – Myanmar – Vietnam Energy Demand Driving New Infrastructure



## Unocal Thailand – Future Growth There's Still a Long Way to Go . . .

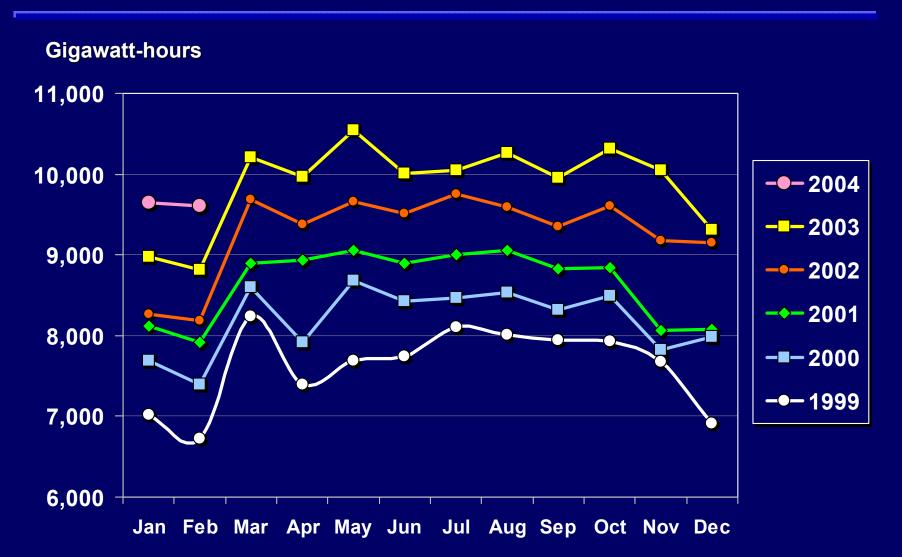
Life to Date		Remaining Inventory
171	Projects	~ 500
1,920	Wells	~ 5,700
95	Wellhead platforms	~ 350
7.1	Capital (\$B gross)	~ 9.0
6.7 (Produced)	Resource (risked TCFE gross)	~ 13.2

## Unocal Gulf of Thailand Contract Volumes Expected to Increase

	MMCFD	
<u>Date</u>	<u>Gross</u>	<u>Net</u>
2003	1,090	590
July 2006*	1,220	670
Beyond 2006*	1,610	920
* per Heads of Agreen	nent	

2003 Actual Unocal GOT net production 627 MMCFD

#### Strong Growth in Thai Power Consumption 1999 - 2004



Source: Electricity Generating Authority of Thailand

#### AIOC Development Project



#### Main Export Pipeline (B-T-C)

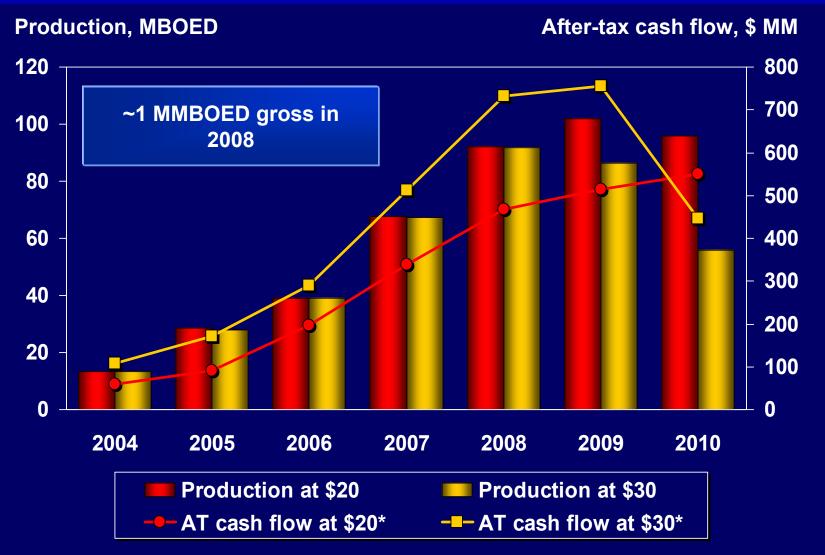
- First pipe laid July 2003; project on schedule
- Financing complete
- First production 2005

#### **AIOC Contract Area**

- 3.9 to 6.9 billion barrels of oil recoverable by 2024
- Now producing ~130,000 BOPD
- Unocal has 10.28% interest
- Phase 1 adds 375,000 BOPD at peak under construction
- Phase 2 adds 400,000 BOPD at peak under construction



## AIOC Production and Operating Cash Flow Unocal Net Under Production Sharing Agreement



<sup>\*</sup> After-tax cash flow from operations

#### **AIOC Participants**

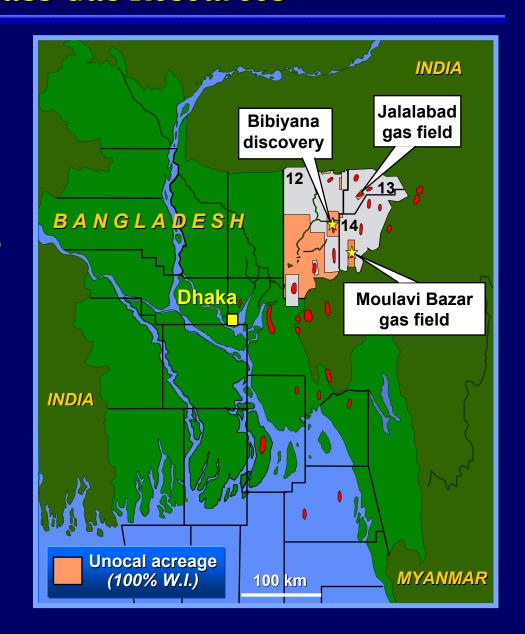
<b>Nation</b>	<b>Company</b>	% Interest
	BP	34.1367
	Unocal	10.2814
	Inpex	10.0000
C•	Socar	10.0000
╬	Statoil	8.5633
	ExxonMobil	8.0006
C*	TPAO	6.7500
	Devon	5.6262
	Itochu	3.9205
	A-Hess	2.7213

- BP is project operator
- Unocal has 2nd largest position
- No single controlling interest
- Excellent partner alignment
- Multinational participation enhances long-term stability

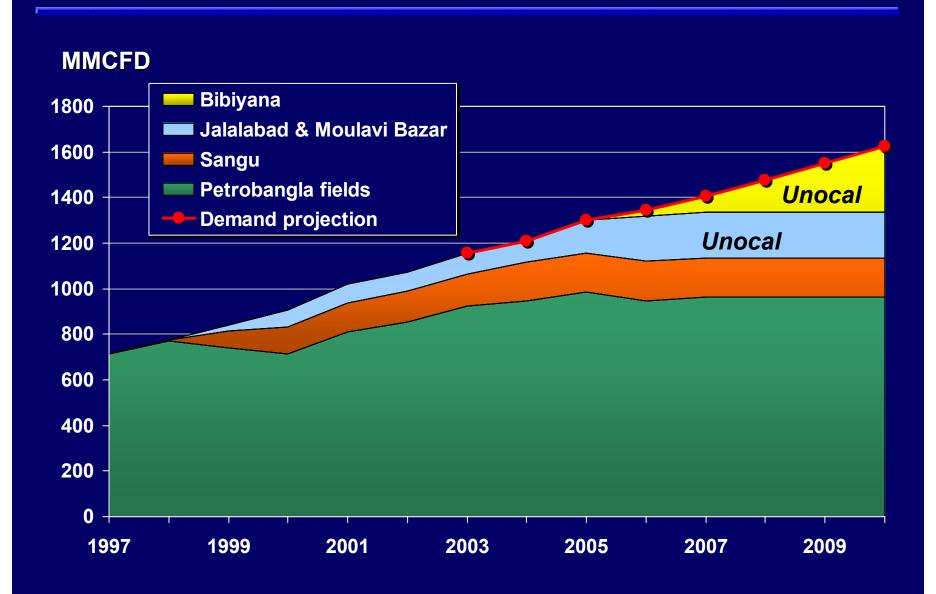


## Bangladesh World Class Gas Resources

- Producing ~130 MMCFD (gross) from Jalalabad; recent peak as high as 200 MMCFD (March 2004)
- Moulavi Bazar field development 70 -100 MMCFD (gross) domestic production in 2005
- Bibiyana field negotiations underway
- Giant discoveries ready to serve additional domestic and export markets

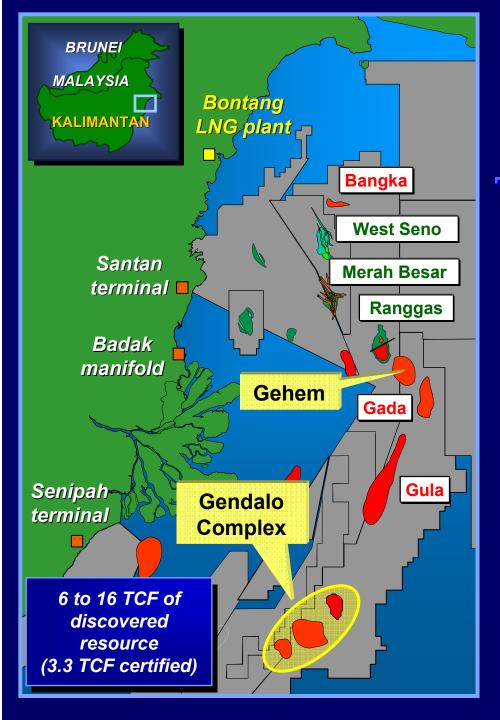


## Bangladesh Gas Market Supply / Demand



#### Bangladesh Moulavi Bazar Development

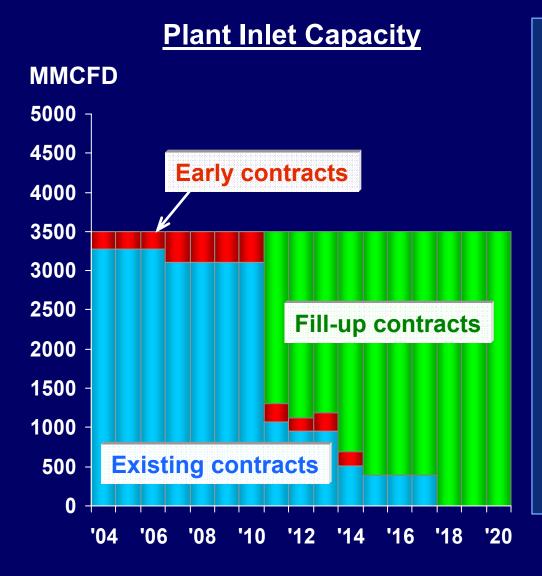
- In October 2003, Unocal signed an agreement with Petrobangla to develop the Moulavi Bazar gas field, located on Block 14
- Unocal will drill two development wells, build a gas processing plant and a 15-mile-long pipeline to connect field with existing natural gas pipeline grid
- Unocal expects to produce 70 to 100 MMCFD from field for domestic markets, beginning 1H 2005
- Estimated gross resource potential is > 440 BCF
- Unocal has a 100% working interest in project
- Total development costs estimated at \$45 MM



# Indonesia Early Gas Development Gehem / Gendalo

- Production to fill Bontang LNG plant capacity
- Two defined fields (3-5 TCF;10 wells drilled to date)
- Engineering and economic scoping completed by 3Q 2004
- First gas sales targeted for 2H 2006; 100-300 MMCFD

#### Indonesia – Bontang LNG Plant Gas Contracts & Market Potential



#### **Existing contracts**

- Market share set through 2010
- Opportunity to fill shortfalls

#### **Early contracts**

 Up to 500 MMCFD spare capacity available

#### Fill-up contracts

Replace existing contracts beyond 2010

#### Deepwater GOM - Mad Dog Development



#### **Project Schedule**

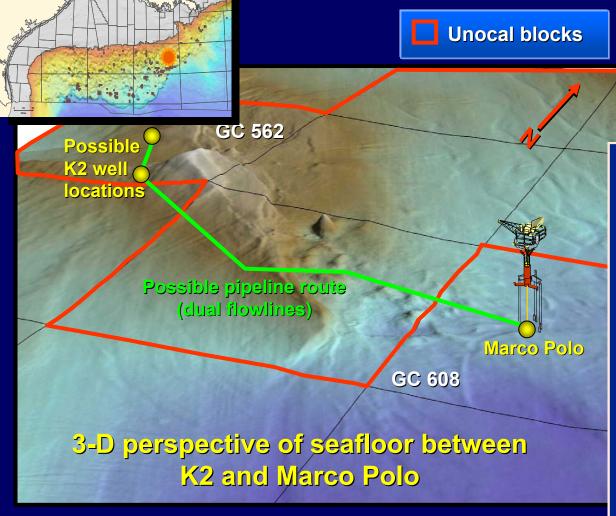
<u>98 99 00 01 02 03 04 05</u>

- Discovery Appraisal
  - Sanction Construction

First Oil 🐔

- Spar development (BP operated), 80,000 BOPD / 50 MMCFD
- 200 450 MMBOE risked full field recovery potential
- On track to deliver first oil early 2005
- Unocal WI 15.6% (13.3% net)

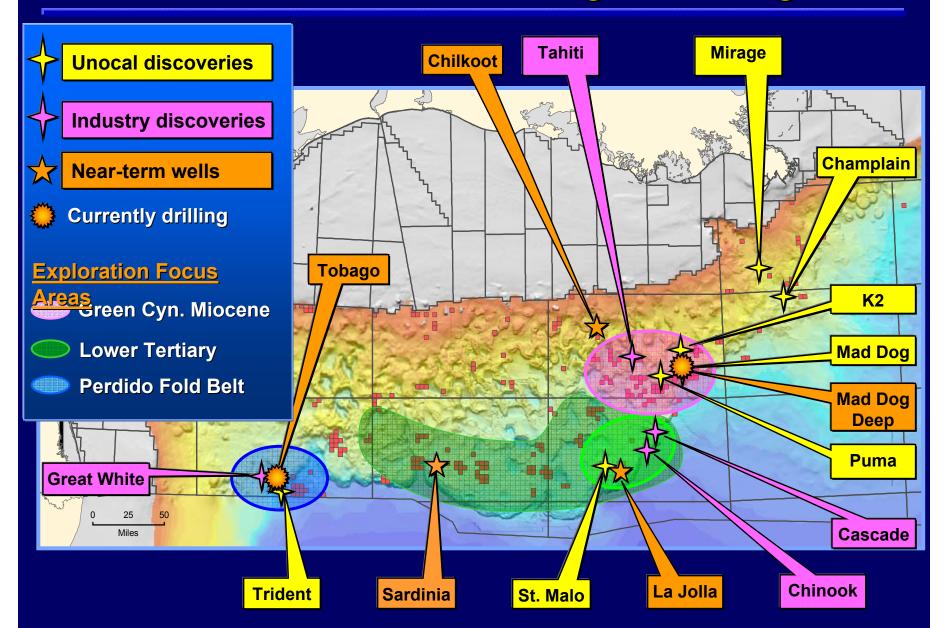
#### Deepwater GOM - K2 Development





- Discovery well (10/99) in ~ 4,000' water depth
- 55-125 MMBOE gross unrisked resource potential
- Project sanction 1Q 04 with first oil 2Q 05
- Subsea tieback to Anadarko's Marco Polo TLP (installed 1/04)
- Peak production 50-65 BOE/D gross
- Unocal WI 12.5% (10.9% net)

## Deepwater Gulf of Mexico Discoveries and Drilling Inventory



#### **Unocal Deepwater GOM Exploration**

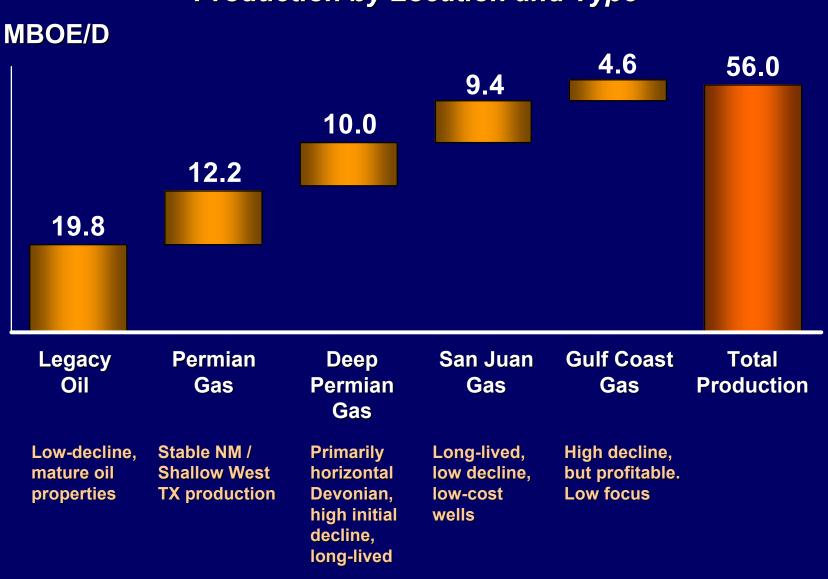
- Unocal's exploration is focused around 3 basin "sweet spots"
  - Greater Green Canyon (Miocene)
  - Alaminos Canyon (Perdido Fold Belt)
  - Emerging Lower Tertiary play in Walker Ridge, Green Canyon and Keathley Canyon (St. Malo discovery)
- Excellent line of sight for next 18 months of program (operated & OBO)
  - Completed and pending deals with majors
- Robust and expanding inventory of prospects
  - Currently drilling: Tobago (Alaminos); Mad Dog Deep (OBO, G.C. Lower Tertiary)
  - Possible spuds within next 18 months: St. Malo appraisal (Walker Ridge);
     Sardinia (K.C. Lower Tertiary); La Jolla (Walker Ridge);
     N. Brontosaurus (Alaminos);
     Chilkoot (OBO, G.C. Miocene);
     Zion (G.C. Miocene);
     Hadrian (K.C. Lower Tertiary);
     Corona del Mar (G.C. Miocene);
     Sequoia /
     Deep Mirage (M.C. Miocene)

#### Pure Resources Overview

High quality, long-lived reserve San Juan Basin base **11 MBOED** Geographically focused operations Significant project inventory **Good full-cycle economics** Permian Basin **37 MBOED (WI)** South Texas / Gulf Coast **Current Pure operations** 8 MBOED

#### Pure's Current Portfolio





## Unocal's Deep Shelf Program Where Are We?

#### 2003 program summary

- 11 wells drilled (10 exploration, 1 development)
- Early success (two small discoveries online),
   but disappointing 4Q well results
- Trap failure and high well costs were key issues
- Total 2003 capex: ~ \$78 MM

#### > 2004 program expectations

- 1<sup>st</sup> half: Back to basics as we re-evaluate program
- 2<sup>nd</sup> half: Expect additional drilling of high-quality tests
- Total 2004 capex approximately half of 2003 level

## Unocal Growing Development Inventory

#### Deepwater Gulf of Mexico -

St. Malo, Puma, Trident, Champlain

#### Deepwater Indonesia -

Ranggas, Merah Besar, Gendalo / Gehem, Sadewa

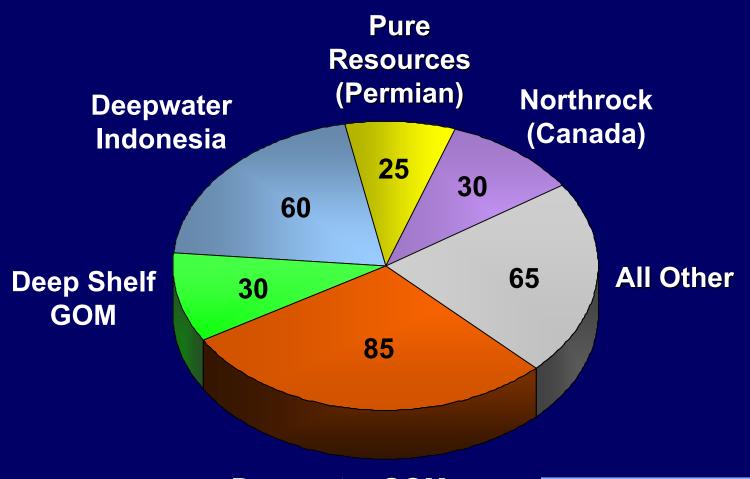
#### Asian gas -

New gas sales agreements in progress - Thailand, Bangladesh, China, Vietnam

#### Onshore North America -

Pure Resources (Permian); Northrock (Canada), Kenai gas (Alaska)

## Focused Exploration 2004 Drilling Capital Spending (\$MM)



**Deepwater GOM** 

**Total: \$295 MM** 

## Unocal What To Watch For In 2004

- Major new developments near completion, resulting in 8-10% production growth in 2005
  - AIOC, Mad Dog, Bangladesh, Thai oil
- Continued deepwater exploration success and appraisal of 2003 deepwater discoveries
  - St. Malo, Puma, Gehem
  - Commercial progress in Perdido (Trident)
- Launching Indonesia deepwater gas developments for Bontang LNG
- Improved Gulf of Mexico Shelf F&D costs and profitability

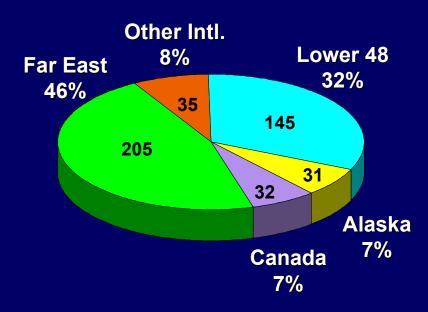
### **APPENDIX**

#### Unocal Resource Base

#### Reserves (MMBOE) 12/31/2003

# Other Intl. Far East 17% 50% 293 Lower 48 21% 109 101 Alaska 6% 6%

## **Production** (MBOE/D) 2003 Average



Total: 1,759 million barrels of oil equivalent

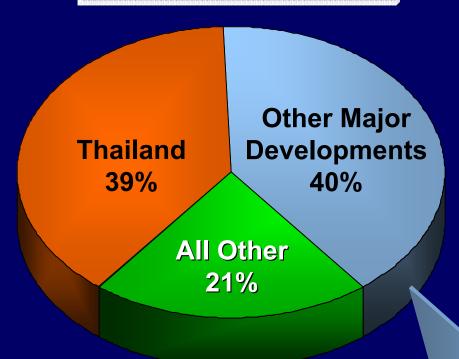
62% gas - 38% oil

Total: 448,200 barrels of oil equivalent per day

64% gas - 36% oil

#### Unocal 2003 Year-End Proved Undeveloped Reserves

PUD = 874 MMBOE Total = 1,759 MMBOE



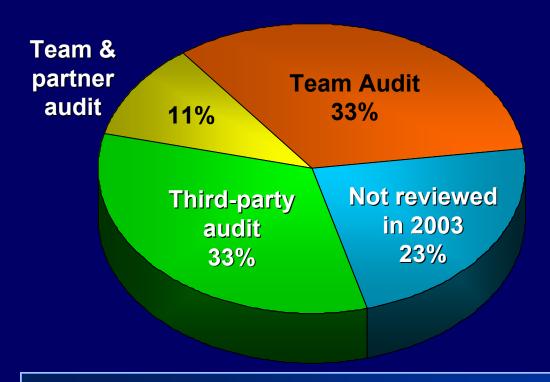
West Seno (Phase 1 & 2), AIOC, Merah Besar, Mad Dog, K2, Ranggas

#### "Quality Assurance" Reserve Process

- Reserves calculated by engineering and geology professionals
- Calculations reviewed by business unit's qualified experts
- Business Unit vice president and experts ensure that annual reserve estimates are in accordance with SEC standards
- ➤ In aggregate, 50% of asset base and 90% of changes are reviewed by corporate review team
  - Leader reports directly to CFO
  - No team member has direct or indirect management ties to business unit under review
  - No team member has a reserve goal
  - One member from independent 3rd party (Ryder Scott)
- Material changes reviewed by Management Committee
- Letter of Confidence issued by outside audit firm

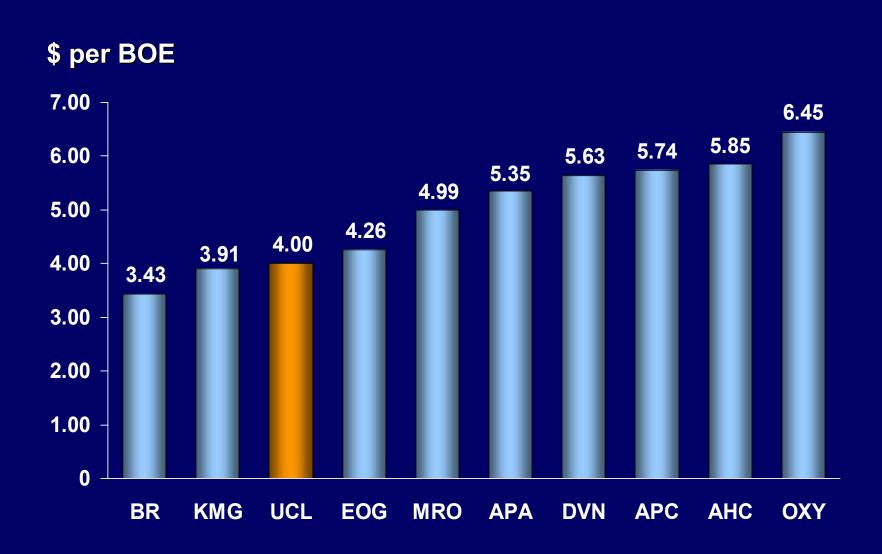
## 2003 Proved Hydrocarbon Reserves Audit Coverage

**Total = 1,759 Million BOE** 

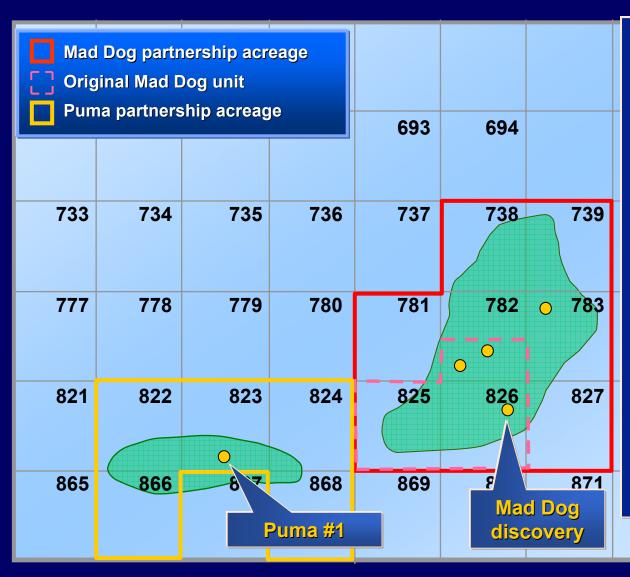


100 % of major changes audited every year 95 % of all changes audited in 2003

#### 2003 Production Expense

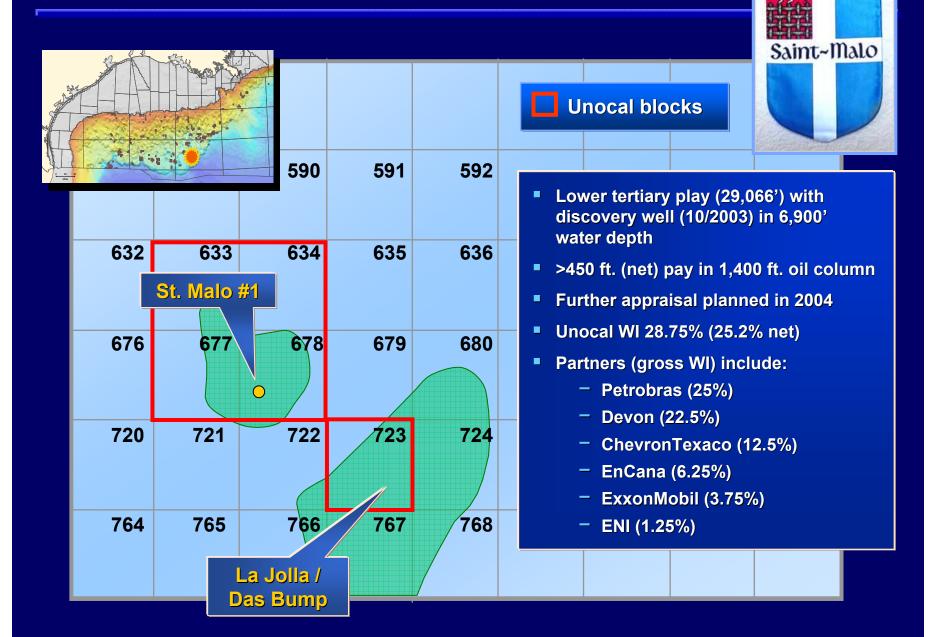


#### Mad Dog Development



- Discovery well (12/98) in ~4,500' water depth
- Three successful appraisal wells
- Spar development (BP operated), 80,000 BOPD / 50 MMCFD
- 200 450 MMBOE risked full field recovery potential
- On track to deliver first oil late 2004 / early 2005
- Development drilling underway with very good results
- Unocal WI 15.6% (13.3% net)

#### St. Malo Discovery

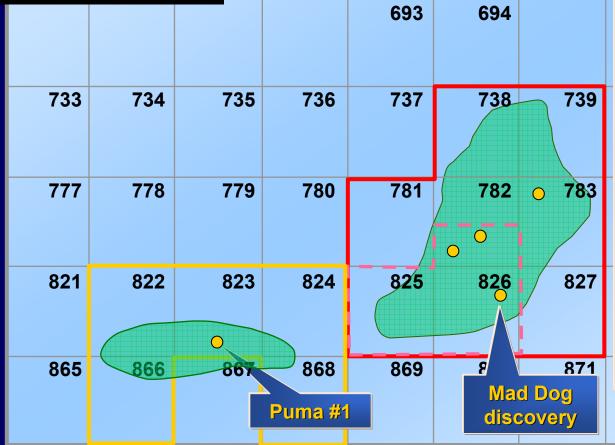


#### **Puma Discovery**



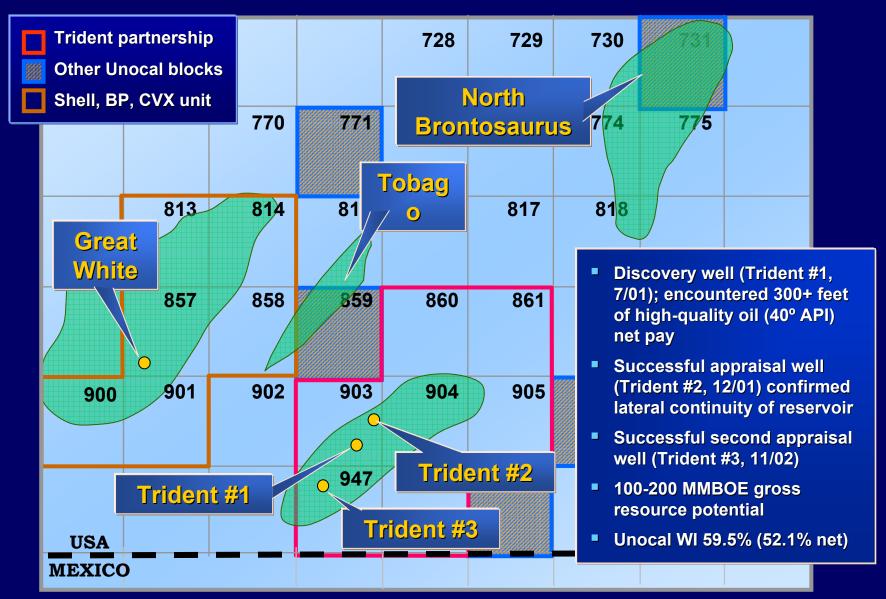


- Discovery well with 2 sidetracks drilled 12/03 in ~4,130' water depth (BP-operated)
  - 500 ft. (net) Lower/ Middle Miocene pay at 19,034'
  - 8-10 miles from Mad Dog
  - Further appraisal likely in 2H 2004
- Unocal WI 15% (13.1% net)



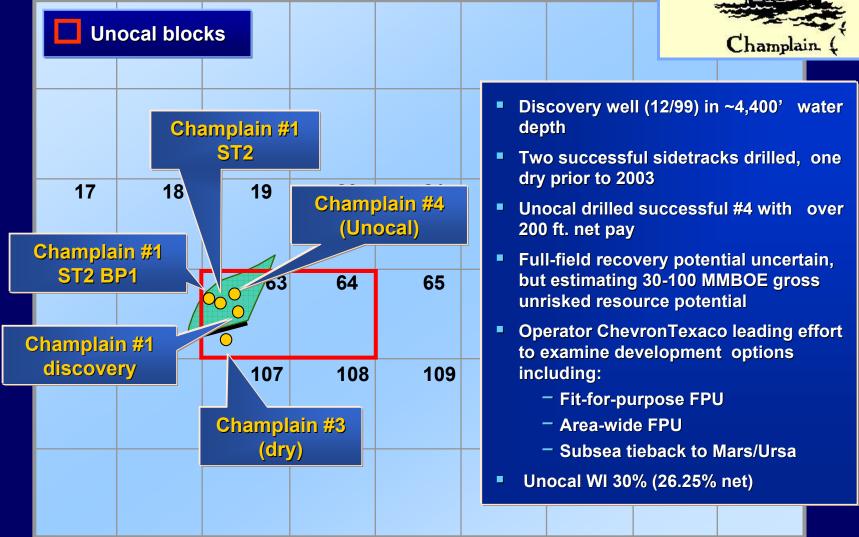
#### **Trident Discovery**





#### Champlain Development





## **China Xihu Trough Natural Gas**

- Unocal signed 5 contracts2 development3 exploration
- Xihu area is 5.4 MM acres
  - ~ 300 ft. water depth
  - ~ 12 gas discoveries
- 4 new exploration wells in 2004
- Attractive East China market
- Unocal will hold a 20% working interest in the project
- Production is targeted to begin in mid-2005; expected to reach 200-250 MMCFD within 2 years

