### ChevronTexaco

### Offshore LNG Receiving Terminals



Richard A. Lammons ChevronTexaco

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## Meeting America's Energy Demand Port Pelican...a ChevronTexaco Approach

"Our company's large worldwide natural gas resource base and strong position in North America provides us with a unique opportunity to create and grow an integrated global gas business...

The eventual scope of our global gas business will encompass the full gas value chain...

In the Atlantic Basin [we] will pursue LNG
initiatives looking to develop multi-supply and
multi-market access positioning, with the initial
focus in North America and Western Africa"

Upstream

Liquefaction

Shipping

CVX equity interests distribute risk and margin

Regasification

Marketing & Pipelines

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Power

Dave O'Reilly
Chairman
ChevronTexaco

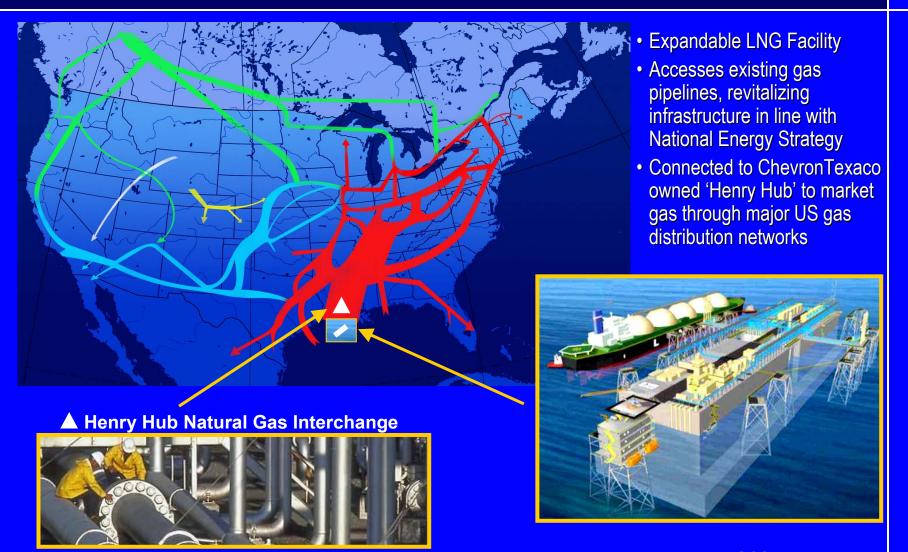
## ChevronTexaco Global Gas – A Natural Gas Value Chain

Multi-billion Dollar Investments Are Required to Develop and Construct a Value Chain to deliver LNG to US Markets

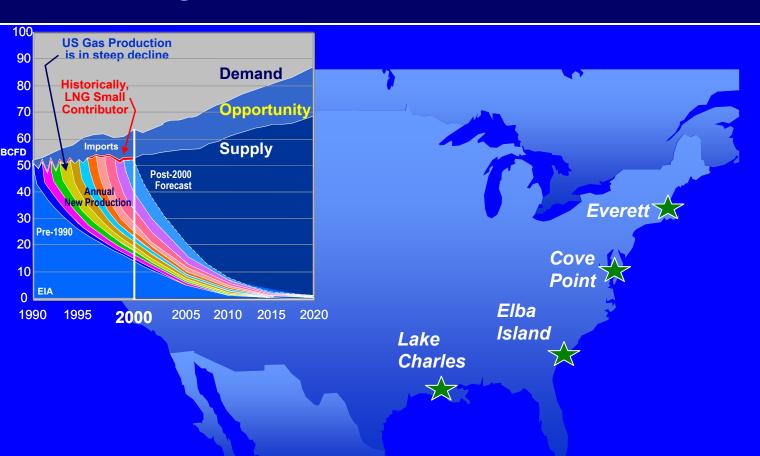


Securing enough firm terminal capacity at the market end of the LNG value chain has historically been a problem in approving investment in new gas supply projects

# Port Pelican...First to open the New Frontier for safe, large scale US LNG import terminals

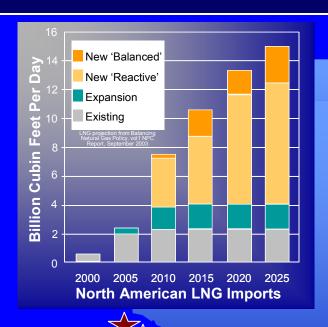


## **North American LNG Receiving Terminals: Existing**



Currently only four active US LNG terminals

#### **New Terminal Proposals**



The Need for Increased Capacity is Undeniable

Lake

Charles

Cove Noint

Elba Island It is yet to be seen how the approval process progresses

Proposals include offshore and onshore terminals



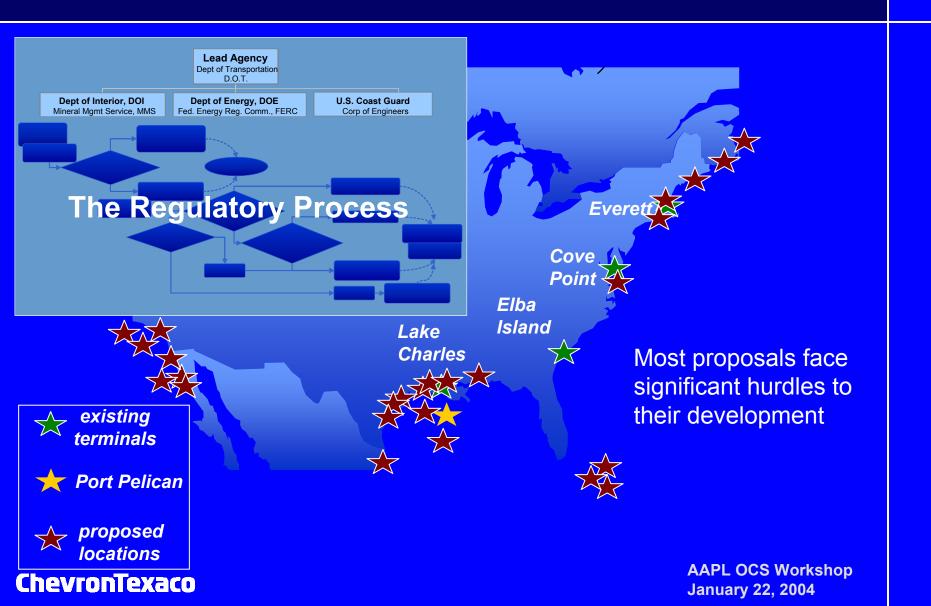




**ChevronTexaco** 

Port Pelican will be the first licensed US offshore terminal

### Proposals are growing...

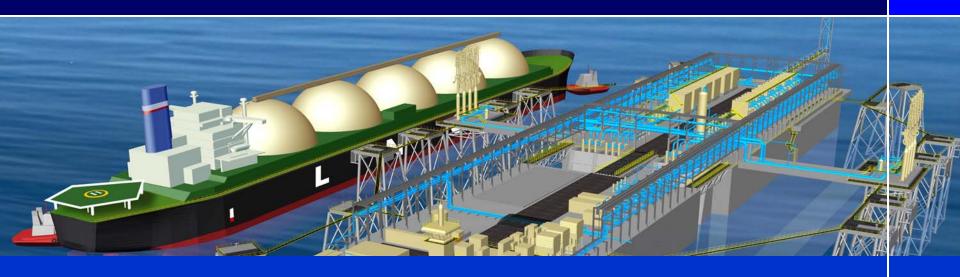


#### **Port Site Selection Criteria**

- Optimal Marine Operability
  - Direct approach, departure & emergency exit corridors
  - Water depth to accommodate super large LNG carriers
  - > Adequate anchorage area
  - Minimal congestion
  - Avoids seabed hazards
  - Acceptable year-round metocean conditions
- Minimal Environmental Impact
  - Avoid geotechnical hazards
  - Evaluate impacts to physical & human environment
  - Access existing pipeline infrastructure
- Market Access & Commercial Viability
  - Access existing pipeline infrastructure
  - Maximize LNG offloading capacity
  - Optimized project costs



### **Gravity Based Structure Selected design for Port Pelican**



- LNG Berthing & Unloading-Large ships
- LNG Storage
- LNG Re-gasification Facilities
- Gas Metering and Pipeline
- Emergency Flare System
- Control Center

- Power Generation
- Potable Water/Sanitary Systems
- Fire and Leak Detection System
- Emergency Evacuation Systems
- Helicopter Facilities
- Crew Quarters

#### ChevronTexaco

### Deepwater Port License Port Pelican's Progress

November 1, 2002:
Business Entities Formed

- Port Pelican LLC
- Pelican Marketing & Trading LLC (100% ChevronTexaco companies)

November 25, 2002: Port Pelican Permit Application Submitted

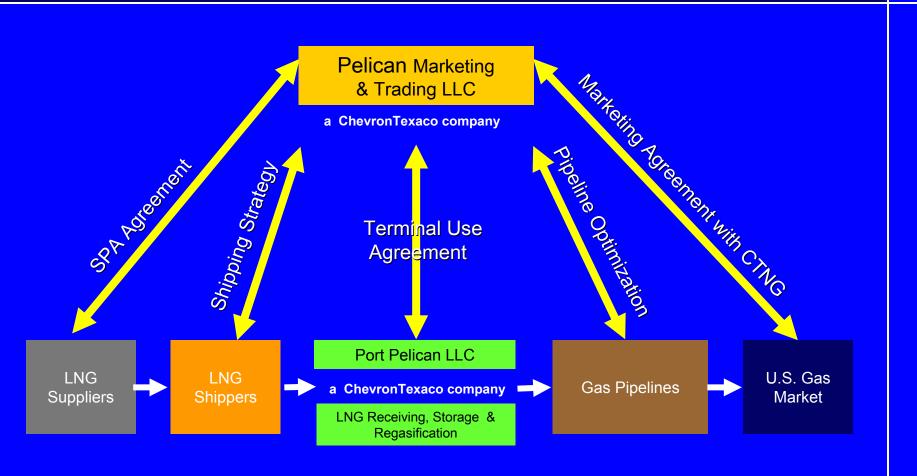
- First U.S. LNG Offshore Terminal submitted to USCG under DWPA, including managed access
- Demonstrates ChevronTexaco's commitment to expand the U.S. LNG business
- US Coast Guard managed Port Pelican's Regulatory Process

November 14, 2003

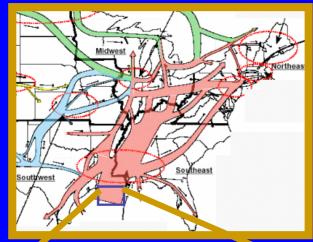
- Maritime Administration (MARAD) issues Record of Decision to grant a License with conditions to Port Pelican LLC
- License Issued January 21, 2004



### The Pelican Entities Business and Commercial Structure



#### **Summary**





Managed Access - Pelican Marketing & Trading controls

1.6 BCFD capacity under the revised Deep Water Port

Act

**Developed Infrastructure – Connects to Henry Hub through ChevronTexaco's gas pipeline infrastructure** 

Location – Prime Gulf of Mexico location for shipping access & security of pipeline off-take

Value Chain Linkage - Enable upstream projects to deliver LNG supply to the US gas market

Timing – Aligned to LNG supply

Environmental Stewardship – Significantly reduced fuel & emissions compared to onshore terminals

**Credibility** – First to submit Deep Water Port application for natural gas and the continued Corporate support

#### Commentary

The US needs imported natural gas to meet future demand

Locating an LNG receiving terminal offshore is an ideal way to address nearshore terminal concerns

- Permitting
- Public Perception
- Availability of appropriate sites
- NIMBY
- Post 9/11 security concerns

The LNG industry has an enviable safety record with no major incidents involving LNG tankers, however, we have an opportunity to continue pro-active education in the US especially with the recent Algeria incident.

Just as GBS oil platforms in the North Sea opened new frontiers for E&P activities in the 1970's, offshore LNG terminals will open new opportunities for global E&P activities to economically supply gas to US Markets using super large LNG carriers

### **Market Pull for Upstream Success**













a ChevronTexaco Company

Managed Access
1.6 BCFD capacity

### **Port Pelican...the New Frontier**

