



Apache

# “ENVIRONMENT” CONTROLS ENERGY OPPORTUNITY

CAL COOPER

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# ENVIRONMENTAL BENEFITS OF NATURAL GAS



- GHG Emissions
- Air Quality
- Footprint
- Safety
- Feedstock

# TRANSFORMATIVE



- Abundant
- Location, Location Location (it's ours)
- Low cost compared to oil
- Choice – power, transportation

# SUCCESS = NO SURE THING



- Public Acceptance
- License to operate
- Competition & conflicting interests

# ENVIRONMENTAL ISSUES : HYDRAULIC FRACTURING



- Water
- Chemicals
- Community Concerns
- Quakes (?)

# CHALLENGES ARE REAL



- ▶ Cost Control
- ▶ Innovation
- ▶ Prudent Development
- ▶ Effective Regulation

THANK YOU



*Apache*

# ENVIRONMENTAL RESPONSIBLE OPERATIONS – AUSTRALIAN OVERVIEW

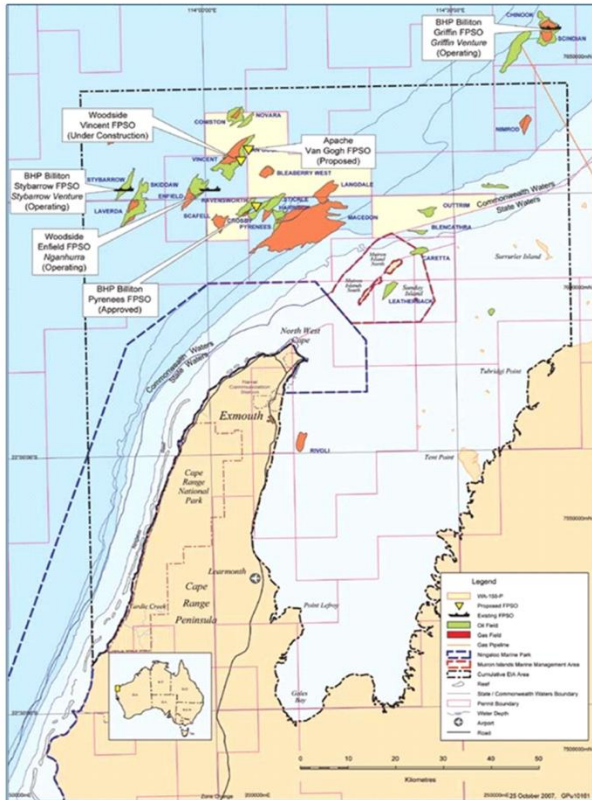
MYLES HYAMS

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# OPERATING IN SENSITIVE ENVIRONMENTS



- ▶ Floating Production Storage and Offloading Vessels (FPSO)
- ▶ Operating near Protected Areas
- ▶ New LNG technology

# PETROLEUM OPERATIONS AND CONSERVATION



# ENVIRONMENTAL MANAGEMENT

- Design to minimize impacts
- Community Engagement
- Contribute to enhancing knowledge base of natural systems
- Strict Environmental Regulatory Regime
- Compliance Reporting
- National Petroleum Regulator
- Horizontal Directional Drilling

# HORIZONTAL DIRECTIONAL DRILLING

