Southern Pacific Petroleum NL



Greenpeace vs the Future of Australian Oil Shale

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The

02/05/02

he 53rd Sydney Mining Club Sydney, Australia 2 May 2002

The History of SPP and Gladstone Oil Shale

1968	SPP and CPM founded by Sir Ian McFarlane
1973	First oil price shock (US\$2.90 to \$11.65/bbl) - Yom Kippur War
1974	Discovery of Rundle deposit
1977/81	Discovery of other Queensland oil shales
1979	Second oil price shock (US\$13 to \$34/bbl) - Iranian Revolution
1980	Exxon secures 60% of Colony Oil Shale Project in Colorado
1980	Exxon secures 50% of Rundle Joint Venture in Australia
1982	Exxon terminates Colony Project
1984	Exxon completes Rundle commerciality study (fluidised bed technology)
1985	Third oil price shock (US\$31.75 to \$10/bbl)
1985	Exxon pays SPP A\$44.5 million to restructure Rundle Project
1986	SPP selects ATP technology for testing

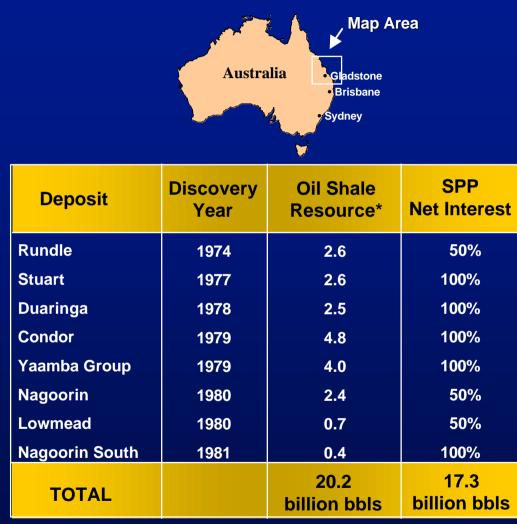
SPP /

SPP CPM

The History of SPP and Gladstone Oil Shale (cont.)

1990	Stuart Stage 1 Project designed
1991	Federal Government provides excise rebate support
1995	Suncor secures 50% of Stuart Joint Venture
1997	Stuart Stage 1 construction start by Bechtel
1999	Construction completed
1999	Suncor takes over commissioning
1999	Odour emissions identified
2000	Odour emissions assessed and reduced
2001	Suncor exits Stuart and SPP takes over operatorship
2001	Production ramp-up begins
2002	ATP technology proven in Stage 1
	1991 1995 1997 1999 1999 1999 2000 2001 2001

Australia's World Scale Oil Shale Resources



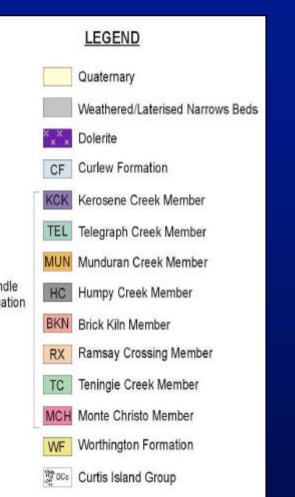
* Based on a cutoff grade of 50 L/t at zero % moisture.
Excludes 9.8 billion barrels (gross and net) of other oil shale in-situ at depths below 500 meters and at high waste-to-ore ratios.



SPP

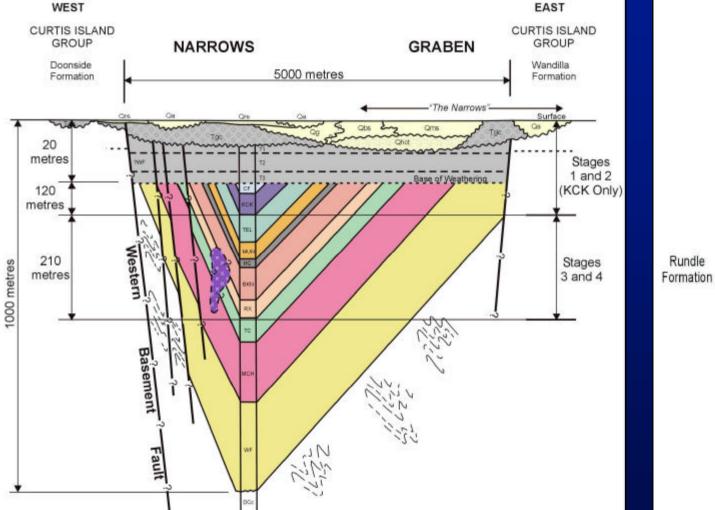
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Stuart Schematic X-Section



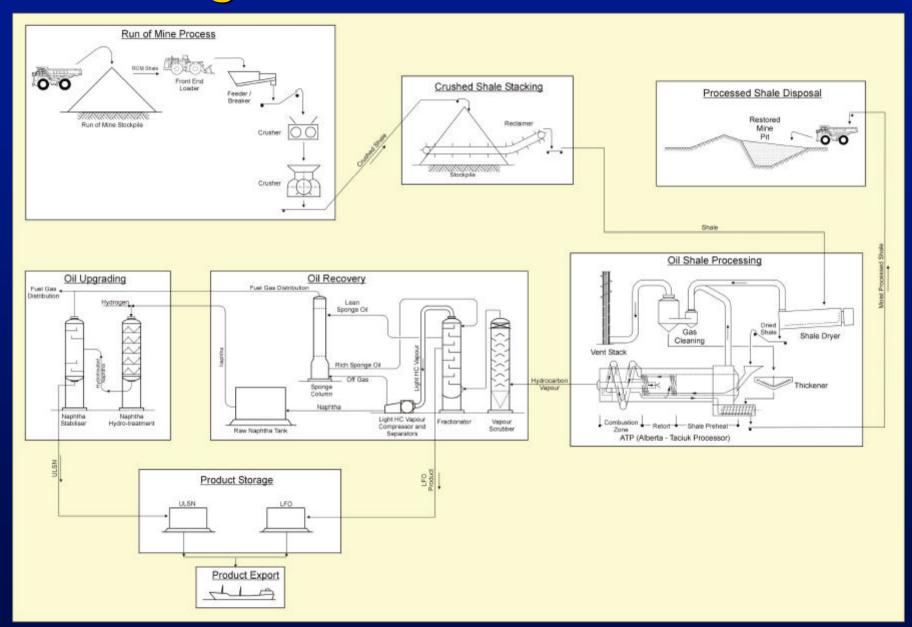
- Fault

S P P



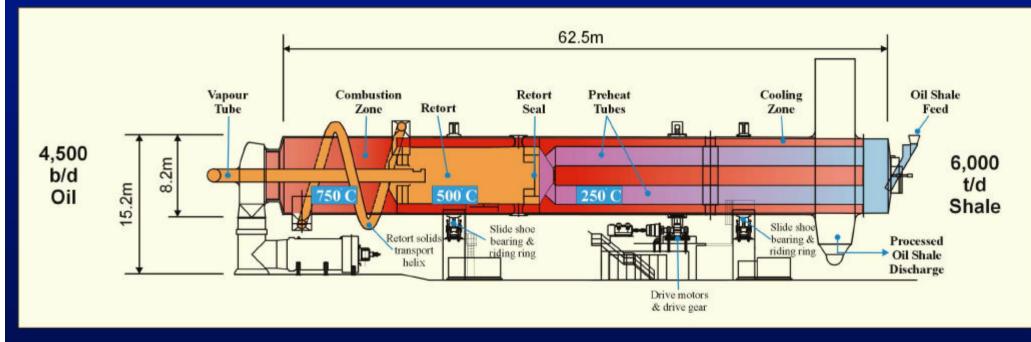
Stuart Stage 1 Process Flow





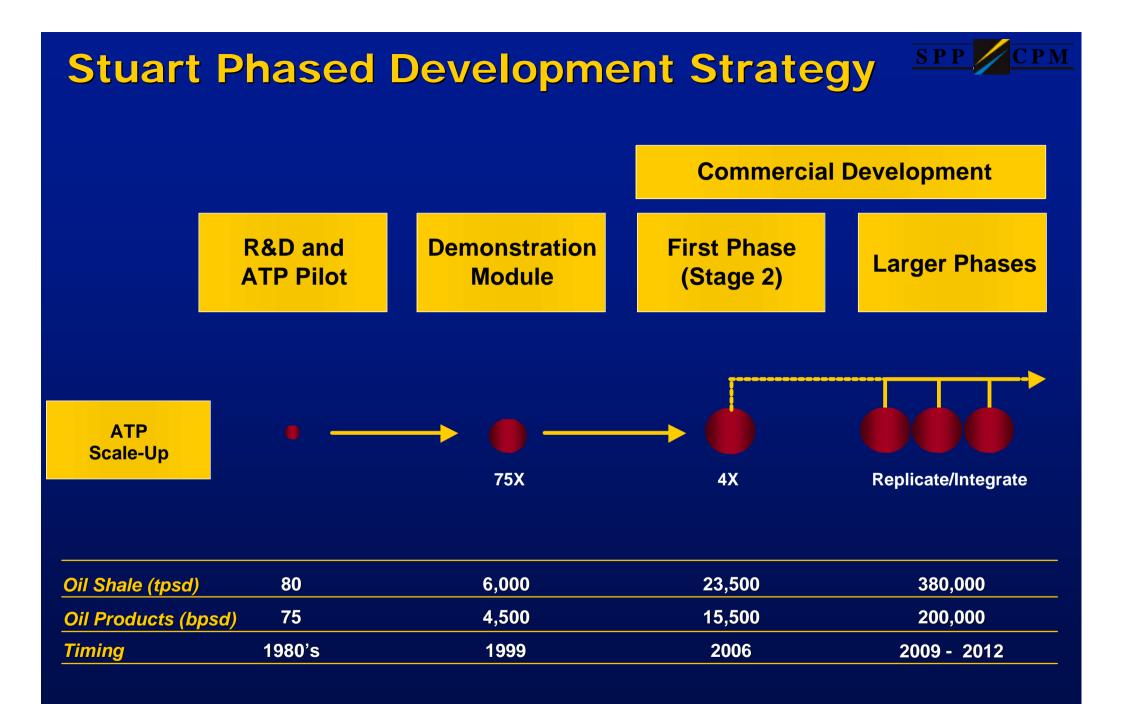
Stuart Showcasing Breakthrough ATP Technology

Stuart Stage 1 ATP Design

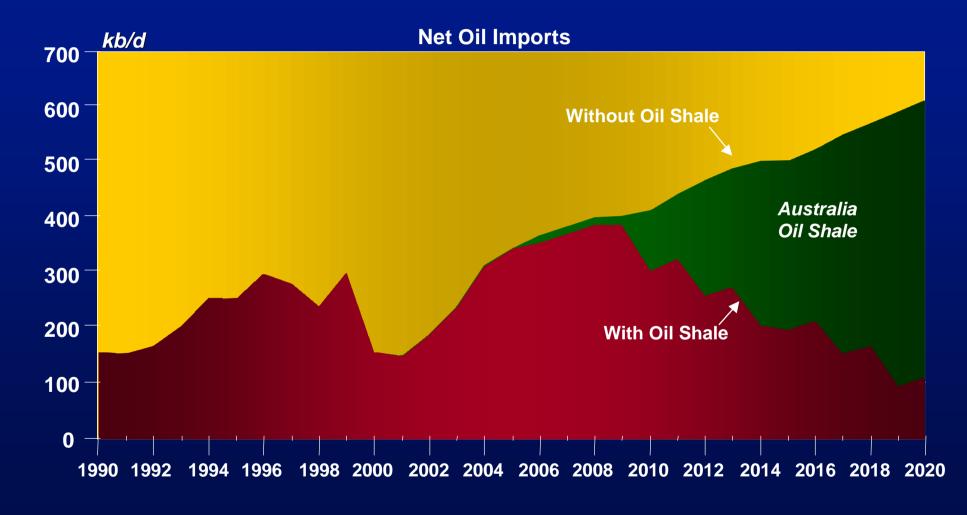


Engineering: Fabrication: Bechtel (US), Krupp Polysius (Germany), UMATAC (Canada) Santaz-Censa (Spain)

SPP



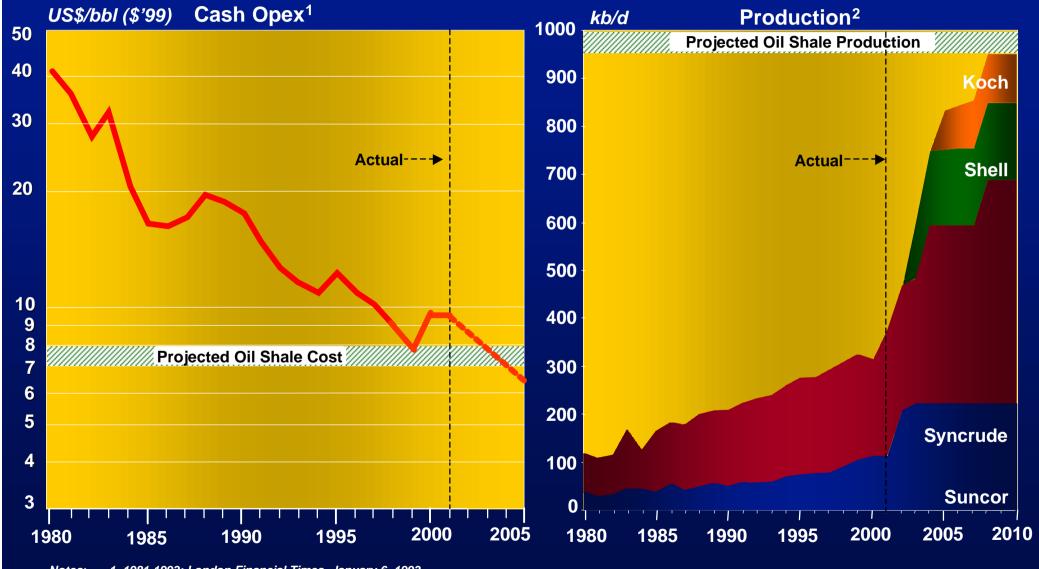
Oil Shale Could Reverse Australia's SPP Growing Oil Supply Deficit



Source: ABARE Research Report November 2001

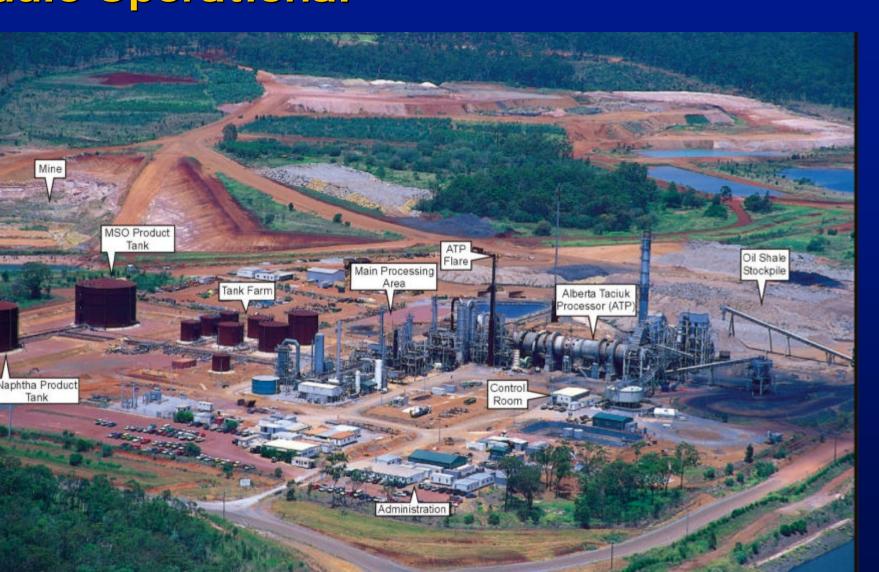
Proven Analogy is Oil Sands





Notes:1. 1981-1993: London Financial Times, January 6, 1993.
1994-2001: Average of published costs by Syncrude and Suncor.02/05/022. Company public reports year 2001

A\$340M Stuart Demonstration Module Operational

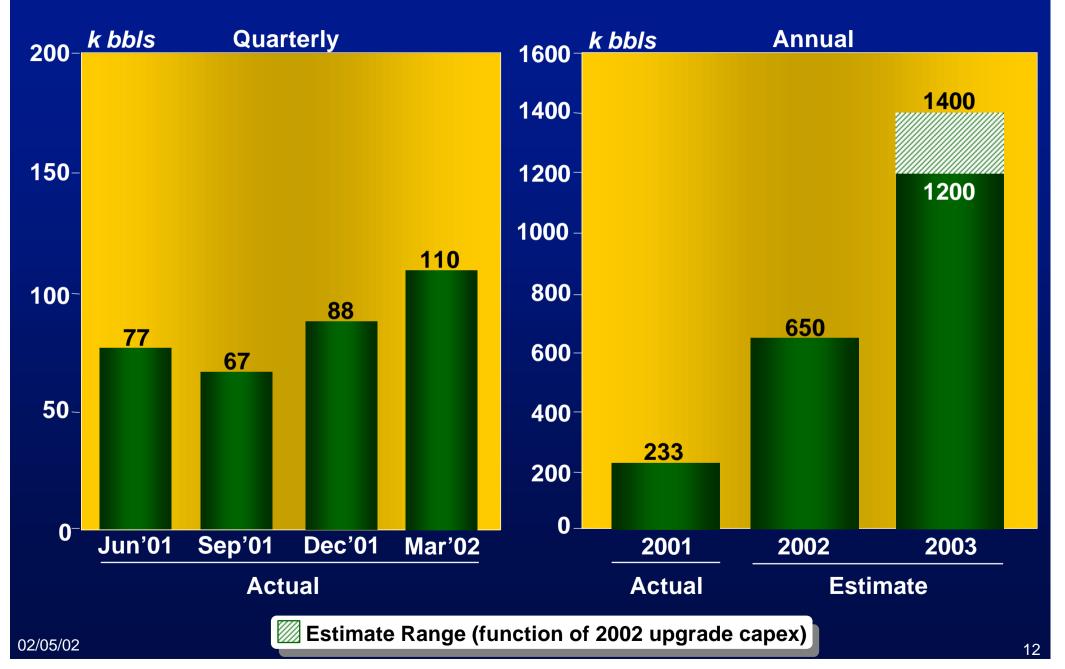


SPP //

PM

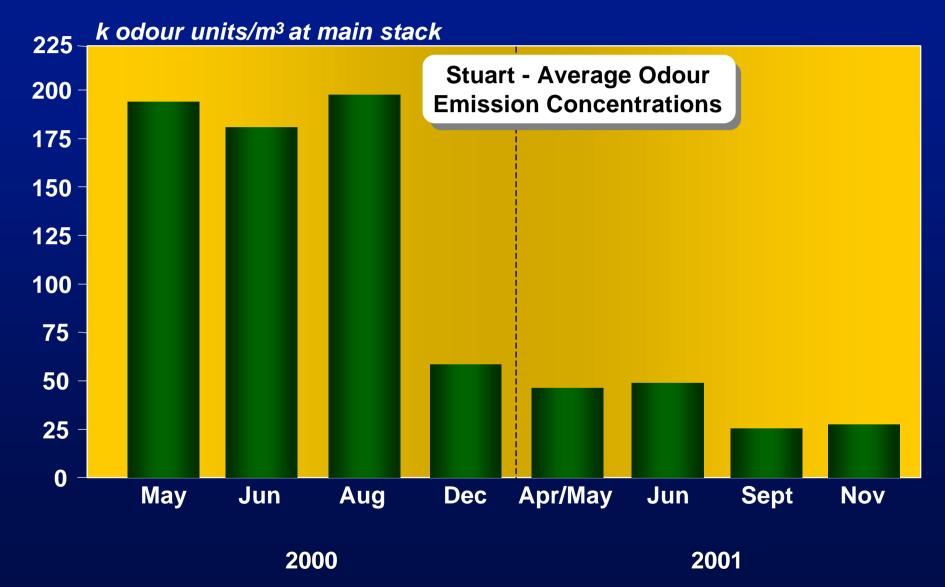
Stage 1 Production



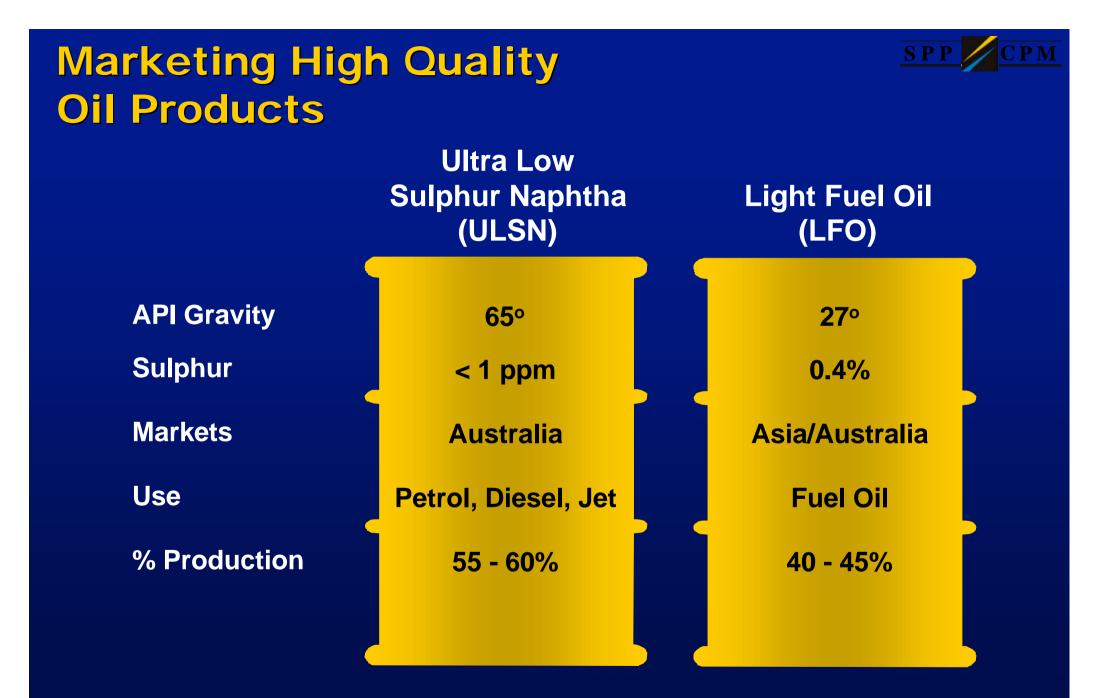


85% Odour Reduction





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Building a Sustainable Industry

ENVIRONMENT

ECONOMY

SOCIETY

- ✓ Best practice air emission levels
- ✓ GHG goal to match conventional oil
- / Dry process
- Ultra-low sulphur naphtha

Stuart (200,000 b/d)

- Investment: A\$8 9 billion
- Balance of payments: A\$3 billion/yr
- 15,000 permanent jobs

Industry (1,000,000 b/d)

- Investment: A\$40 billion
- Balance of payments: A\$15 billion/yr
- ✓ 65,000 permanent jobs
- Regional development
- Aboriginal partnership

