SINO Gas & Energy
中澳煤层气能源

Sino Gas & Energy Holdings
Macquarie Western Australia Forum




"Size, Scalability, Market and Pricing"

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This presentation should be read in conjunction with the Annual Financial Report as at 31 December 2013, the half year financial statements together with any ASX announcements made by the Company in accordance with its continuous disclosure obligations arising under the *Corporations Act 2001 (Cth)*.

Company Snapshot

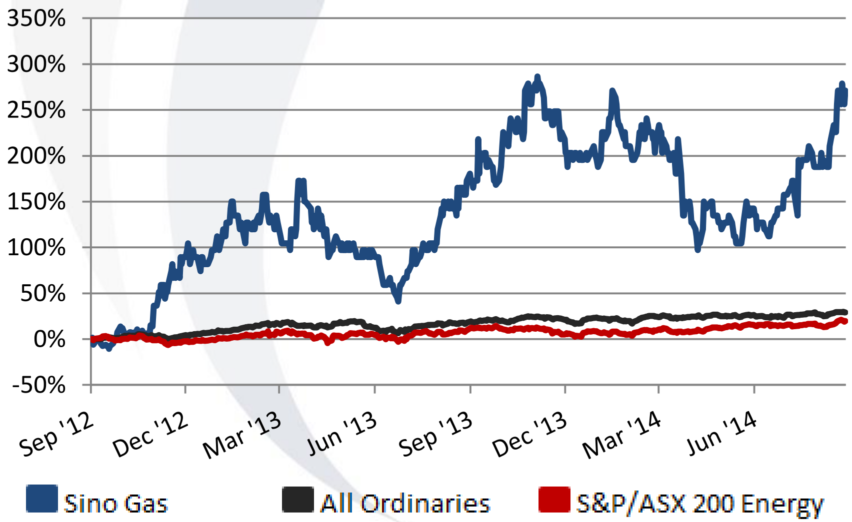
SINO Gas & Energy 中澳煤层气能源

Corporate Information - as at 30 Sept 2014

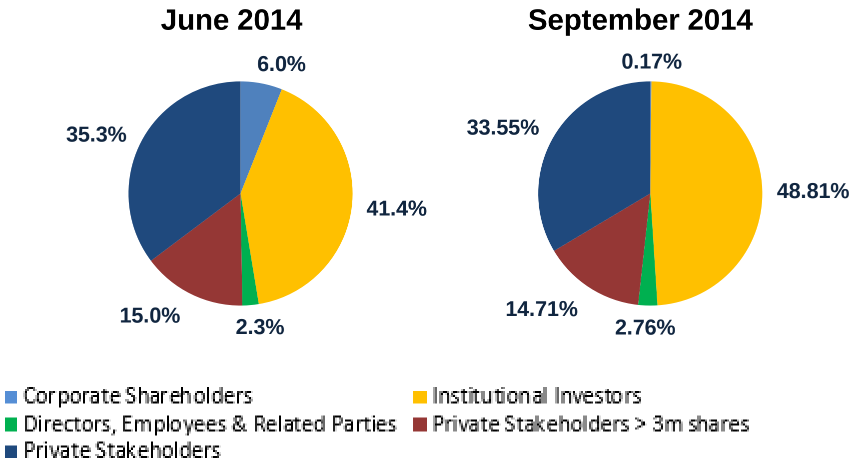
ASX Listed (S&P ASX 300)	SEH
Share Price	A$0.21
Issued Shares	1,542m
Market Cap	US$283m
Cash Balance	US$57.7m

Headquarters in Beijing

Two Year Share Price History (TSR of 250%)



Share Register – September 2014



Top Shareholders – Sept 2014	Shares (m)	%
FIL Investment Management	153.2	9.9%
Commonwealth Bank of Australia	118.4	7.7%
Kinetic Investment Partners	88.6	5.7%
Perennial Value Management	53.0	3.4%
JP Morgan Asset Management	51.7	3.4%

Sustained Natural Gas Demand

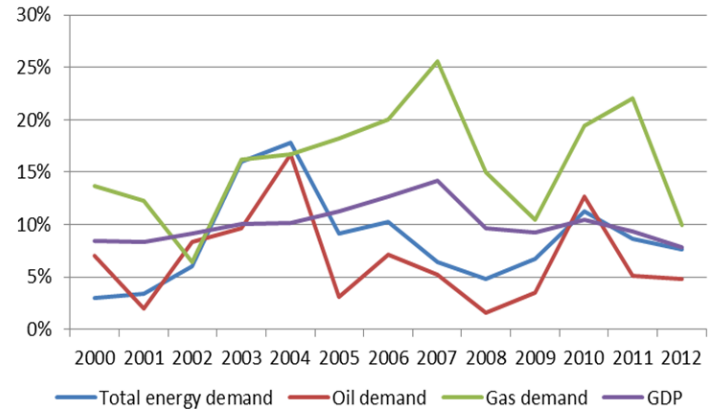
Strong Market Fundamentals

- **Increasing Demand**
  Forecasts indicate strong and increasing demand for natural gas
- **Prices Strengthening**
  Pricing robust with domestic prices set by government policy at ~US$ 10.80/mscf for non-residential use
- **Domestic Production Shortfall**
  Shortfall to continue as unconventional gas production slowly ramps up (tight gas, CBM, shale gas)

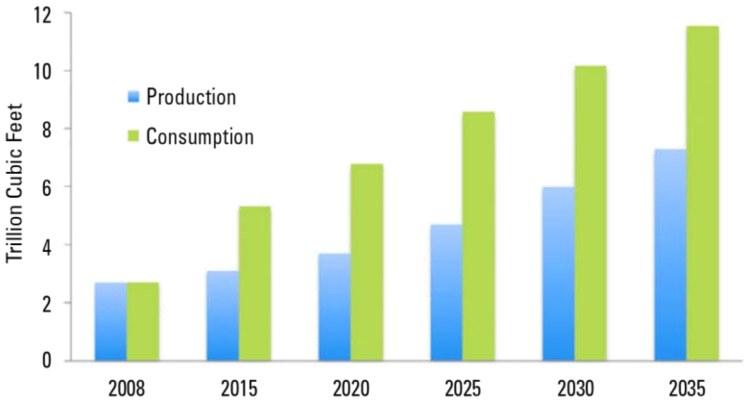
Sino Gas well positioned

- **Pipeline Production in 2014**
  World class gas assets at pre-development stage move to early production in 2H of 2014
- **Commercialisation**
  Infrastructure, services, equipment and water readily available in Ordos Basin
- **Pathway to Production**
  Sino Gas is well advanced and on track to commence pipeline production and sales in 2014

Y/Y change in GDP & Energy Demand in China[1]



China Domestic Market Outlook2[2]



1 – Source: BP Statistical Review 2014, World Bank World Development Indicators 2 – Source: U.S EIA - International Energy Outlook 2011

Project Overview

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中澳煤层气能源

Size & Scale

Sino Gas' PSCs are approximately 3,000km² or 741,000 acres

Exploration Upside

Substantial acreage yet to be fully explored (~30% remaining)

Geology

Gas sourced from deep coal – redeposited to ~2,000m, with gas migration to adjacent sands

Stacked Multiple Pay-Zones

River channel depositional environment, up to 16 pay-zones per well evidenced

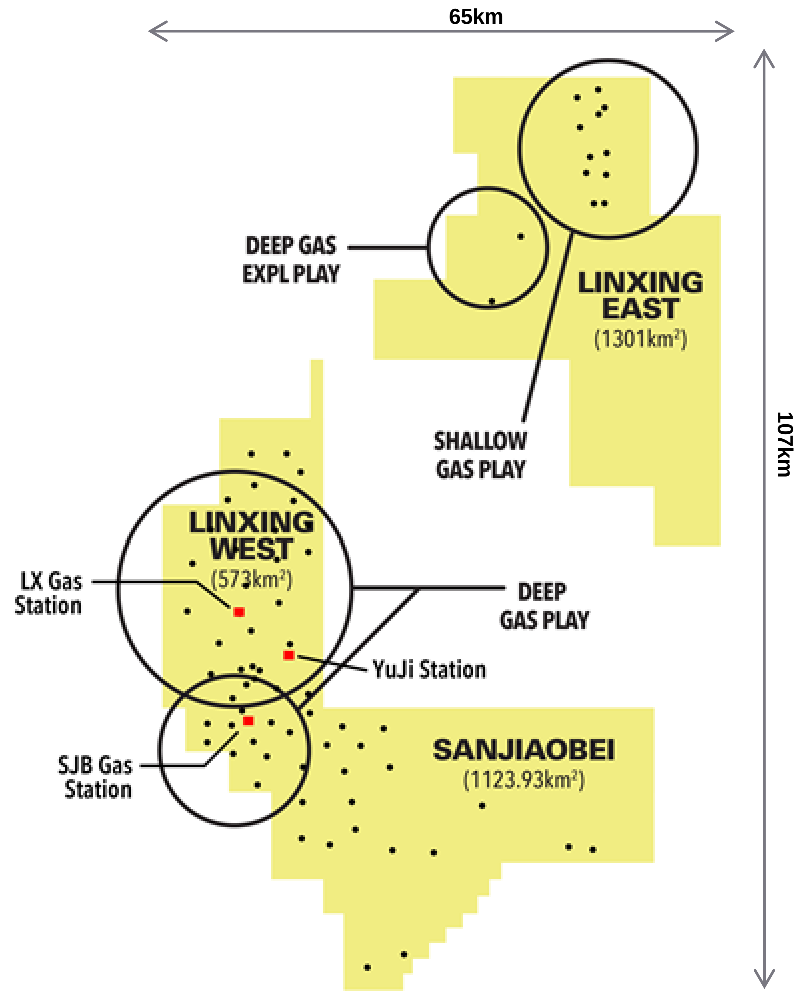
Surrounded by Prolific Production

Ordos Basin has been on large-scale oil & gas production since the 1980s

e.g. Changqing oil and gas field alone producing 2.8 bcf/day gas in 2012 (27% of China's total gas production). Sulige tight gas field achieved peak production of 1.7 bcf/day in 2012

Commercialisation

Sino Gas is well advanced and on track to commence pilot pipeline production and sales in 2014



Existing Infrastructure & Market

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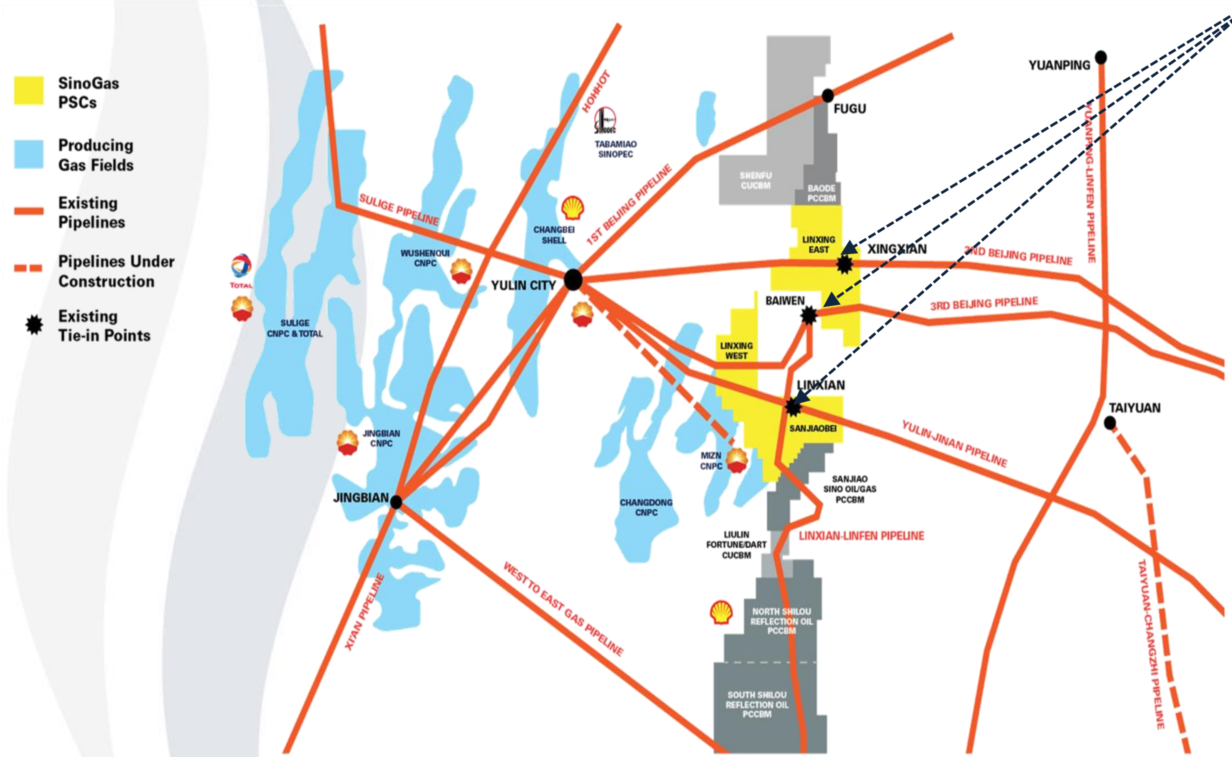

- Multiple gas pipelines with **existing tie-in points**
- Direct market access for Sino Gas' pipeline quality gas
- Key transcontinental gas transport hub with ample spare capacity
- Continued forecasted gas shortfall provincially and nationally

- Adjacent CNPC field on production since 2005
- CNPC is the SOE PSC Partner with Sino Gas in the adjacent Sanjiaobei PSC
- Over 200 producing wells are currently estimated - a combination of vertical and horizontal well completions

Resource Statement

Sino Gas & Energy Holdings Limited (ASX:SEH, “Sino Gas”, “the Company”) holds a 49% interest in Sino Gas & Energy Limited (SGE) through a strategic partnership completed with MIE Holdings Corporation (“MIE” SEHK: 1555) in July 2012 to develop two blocks held under Production Sharing Contracts (PSCs) with CNPC and CUCBM. SGE has been established in Beijing since 2005 and is the operator of the Sanjiaobei and Linxing PSCs in Shanxi province.

The statements of resources in this release have been independently determined to Society of Petroleum Engineers (SPE) Petroleum Resource Management Systems (PRMS) standards by internationally recognized oil and gas consultants RISC (announced 4 March 2014) using probabilistic estimation methods. These statements were not prepared to comply with the China Petroleum Reserves Office (PRO-2005) standards or the U.S. Securities and Exchange Commission regulations and have not been verified by SGE’s PSC partners CNPC and CUCBM. EMV is the probability weighted net present value (NPV), including the range of project NPVs and the risk of the project not progressing. Project NPV10 is based on a mid-case wellhead gas price of $US8.79/Mscf and lifting costs (opex+capex) of ~ US$1.5/Mscf for mid-case Reserves, Contingent & Prospective Resources. All resource figures quoted are unrisked mid-case unless otherwise noted. Sino Gas’ attributable net Reserves & Resources assumes PSC partner back-in upon ODP approval, CBM Energy’s option to acquire an interest of 5.25% in the Linxing PSC (by paying 7.5% of back costs) is exercised, and MIE fulfil funding obligations under the strategic partnership agreement. Reserves & Resources are net of 4% in-field fuel for field compression and field operations. Reference point is defined to be at the field gate. No material changes have occurred in the assumptions and subsequent work program exploration and appraisal results have been in line with expectations.

Information on the Resources in this release is based on an independent evaluation conducted by RISC Operations Pty Ltd (RISC), a leading independent petroleum advisory firm. The evaluation was carried out by RISC under the supervision of Mr Peter Stephenson, RISC Partner, in accordance with the SPE-PRMS guidelines. Mr Stephenson has a M.Eng in Petroleum Engineering and 30 years of experience in the oil and gas industry. RISC consents to the inclusion of this information in this release.

RISC is an independent advisory firm that evaluates resources and projects in the oil and gas industry. RISC offers the highest level of technical, commercial and strategic advice to clients around the world. RISC services include the preparation of independent reports for listed companies in accordance with regulatory requirements. RISC is independent with respect to Sino Gas in accordance with the Valmin Code, ASX listing rules and ASIC requirements.

Reserves & Resources

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RISC's independent mid-case assessment up to 31 December 2013 identified:

- 227% increase in Gross Project 2P Reserves to 1,068 bcf, with Sino Gas' share at 291 bcf[1]
- Gross Project Contingent Resources increased 32% to 2.9 tcf, with Sino Gas' share increasing to 850 bcf[1]
- Gross Project Prospective Resources increased 25% to 4.0 tcf, with Sino Gas' share increasing to 1.0 tcf[1]
- Sino Gas' share of project EMV has increased by a further 45% to US$2.3 billion[2]

Sino Gas' Attributable Net Reserves & Resources are summarised below:

Sino Gas' Attributable Net Reserves & Resources[1]	1P RESERVES (Bcf)	2P RESERVES (Bcf)	3P RESERVES (Bcf)	2C CONTINGENT RESOURCES[3] (Bcf)	P50 PROSPECTIVE RESOURCES[3] (Bcf)	EMV_{10} ($USm)[2]
March 2014 (Announced 4 March 2014)	**129**	**291**	**480**	**850**	**1,023**	**2,258**
March 2013 (Announced 20 March 2013)	32	94	199	653	885	1,556
TOTAL 2013 CHANGE (+/-)%	**+211% (2P Reserves)**			**+30%**	**+16%**	**+45%**
Total Project March 2014	**466**	**1,068**	**1,786**	**2,941**	**3,978**	**N/A**

Note 3: Contingent and Prospective Resources have not been risked for the risk of development and discovery. The estimated quantities of petroleum may potentially be recovered by the application of future development project(s) relate to undiscovered accumulations. These estimates have both an associated risk of discovery and a risk of development. Further exploration and appraisal is required to determine the existence of a significant quantity of potentially moveable hydrocarbons.

Sino Gas' share of the project's success case Net Present Value (NPV) and risk weighted EMV are summarised below:

SINO GAS' ATTRIBUTABLE ECONOMIC VALUE[2]	NPV_{10} ($USm)	EMV_{10} ($USm)[2]
Reserves	625	653
Contingent Resources	828	754
Prospective Resources	1,350	851
TOTAL		**2,258**

1 – To be read in conjunction with Resource Statement on slide 7. 2 – EMV is based on NPV_{10} with a mid-case gas price of US$8.79/Mscf and lifting costs (opex+capex) of ~US$1.5/Mscf for mid-case Reserves, Contingent & Prospective Resources.

Project and Company Growth

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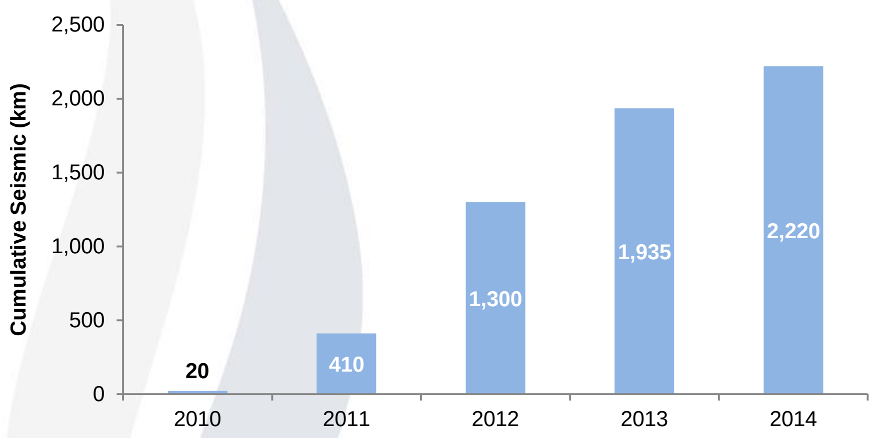
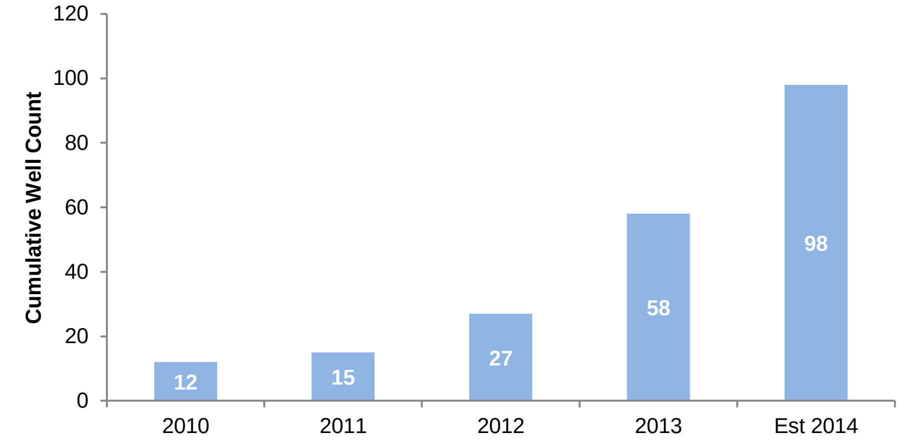
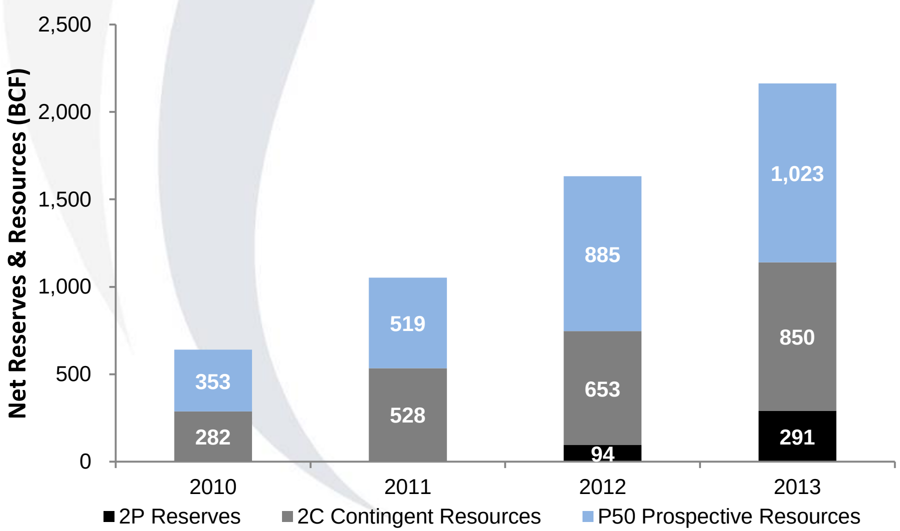
Cumulative Seismic (km)



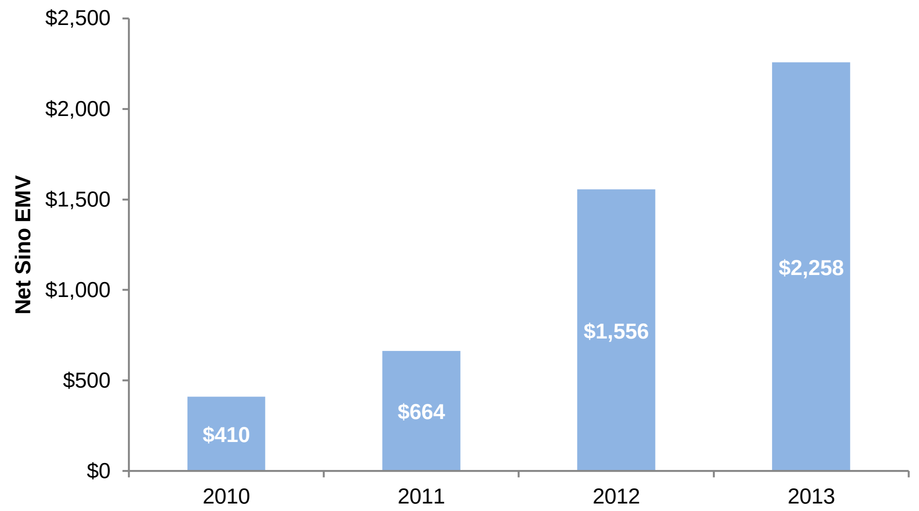
Cumulative Well Count



Sino Gas' Net Reserves & Resources Growth[1]



Sino Gas' Net EMV[2]



1 – Refer to Resource Statements on slides 7-8 for full disclosure. 2 – EMV is based on NPV_{10} with a mid-case gas price of US$8.79/Mscf and lifting costs (opex+capex) of ~US$1.5/Mscf for mid-case Reserves, Contingent & Prospective Resources.

Independent Economic Evaluation

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RISC Independent Economic Evaluation

US$2.3 billion[1]

Expected Monetary Value (EMV) announced 3 March 2014

Project IRR ~ 52 to 66%[1]

mid-case across both PSCs[2]

~ 1 Bcf/day modeled steady state production

for 100% Reserves, Contingent + Prospective Resources across both PSCs

Project Economic assumptions

- EUR Per Well ~2 Bcf
- Well Head Gas Price US$8.79 /Mscf
- Average Cost Per Well ~ US$2.1m
- P50 Total Capex ~US$0.80/Mscf
- P50 Total Opex ~US$0.70/Mscf

Further upside still remains

- Pad Drilling
- Horizontal Wells
- Underexplored Acreage

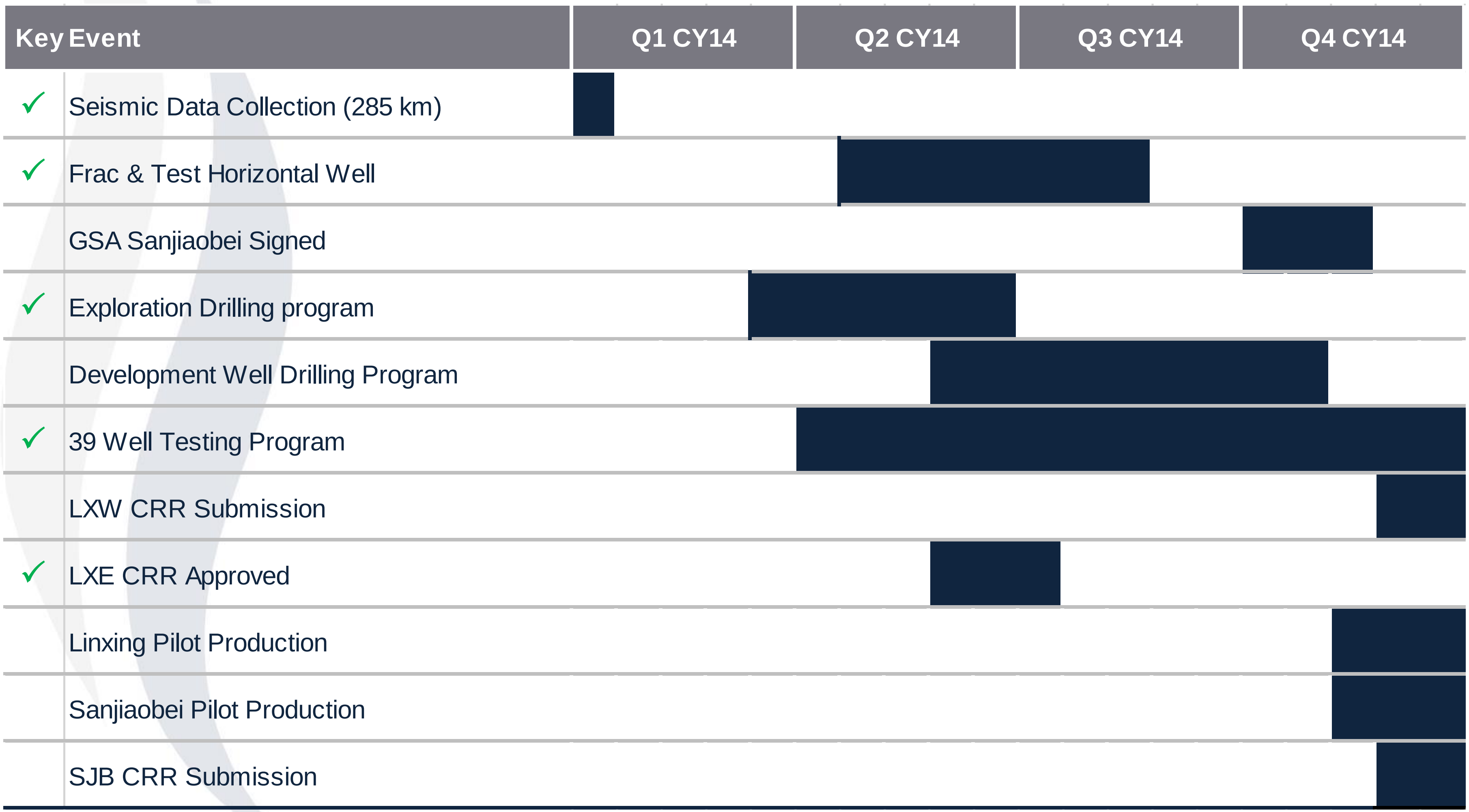
1 – Refer to Resource Statements on slides 7-8 for full disclosure. Evaluation based on NPV_{10} with a mid-case gas price of US$8.79/Mscf and lifting costs (opex+capex) of ~US$1.5/Mscf for mid-case Reserves, Contingent & Prospective Resources.

Pathway to Production

	≤ 2012	2013	2014	2015+
Corporate Focus	Securing funding Delineating acreage	Proving up resources	Bringing on Pilot Production	Develop Full Field
# Wells Drilled	27	31	Est. 40	Increasing to 100+ per year
2P Reserves / 2C Resource (Net)[1]	0 / 528 bcf	94 / 653 bcf	291 / 850 bcf	
Funding	US$10 mm cash + US$90 mm MIE +A$3 mm option	A$10 mm + A$53 mm equity issues	$50m Macquarie facility secured	RBL / Internal Cash
Sales	N/A	First GSA signed CNG sales near YE	Pilot Pipeline gas sales by year-end	Ramp-up Production
Net Independent EMV[2]	US$664 mm	US$1,556 mm	US$2,258 mm	

1 – Refer to Resource Statements on slides 7-8 for full disclosure. 2 – EMV is based on NPV_{10} with a mid-case gas price of US$8.79/Mscf and lifting costs (opex+capex) of ~US$1.5/Mscf for mid-case Reserves, Contingent & Prospective Resources.

2014 Work Plan – Forward Milestones



SEH provides an opportunity to invest in the China energy growth story

SINO Gas & Energy 中澳煤层气能源

- **Reserves & Resources**

  A growing reserve and resource base (Gross Project 2P Reserves at 1,068 bcf[1]) in **one of the world's largest gas basins**

- **Market Demand**

  Natural gas consumption in China planned to **double** by 2018

- **Major JV Partners**

  Tier 1 partners (CNPC / CUCBM) and attractive PSC fiscal regime

- **Equipment Availability / Central Gathering**

  Competitive well and operating costs - US$1.50/mscf[1], extensive rig and service industry availability – delivery infrastructure in place providing access to a **large domestic market**

- **Sales Secured**

  Pilot pipeline gas sales **second half 2014** from both PSCs with attractive pricing US$7.00/mscf under GSA for first year, expected to move in line with national pricing – circa US$10.80+/mscf

1 – Refer to Resource Statements on slides 7-8 for full disclosure.

SEH provides an opportunity to invest in the China energy growth story

SINO Gas & Energy 中澳煤层气能源

- **Upside Remaining**
  Horizontal well development and substantial acreage yet to be explored
- **Financed for development**
  US$57.7m cash at 30 September 2014 plus a further US$40m debt facility in place
- **Supportive Macro Environment**
  Chinese government policy is supportive of domestic gas producers. The recently announced gas supply agreement between Russia and China is a significant vote of confidence in the Chinese move towards gas.

Board of Directors

Philip Bainbridge
Chairman

- More than 30 years experience in the oil and gas industry, 23 years with the BP Group
- Former COO of Oil Search and Executive General Manager LNG responsible for gas growth and exploration
- Currently a member of the Board of PNG Sustainable Development Program and a non-executive director of Drill Search Energy Company
- Extensive gas project development and management experience
- Member of the Australian Institute of Company Directors

Gavin Harper
Non-Executive Director

- More than 37 years experience in the oil and gas industry, 25 years with Chevron
- Former MD of Chevron's Korean Gas Business Development
- Previously business manager Chevron Australia – Gorgon Project and led the project to integrate Chevron's Australian & PNG operations
- Extensive worldwide project management experience
- Member of the Australian Institute of Company Directors

Bernie Ridgeway
Non-Executive Director

- Over 23 years corporate experience with public and private companies as owner, director and manager
- Current MD of ASX-listed Imdex Limited (ASX: IMD)
- Member of the Institute of Chartered Accountants Australia
- Member of the Australian Institute of Company Directors

Colin Heseltine
Non-Executive Director

- 40 year career with Australian Department of Foreign Affairs and Trade (1969-2008)
- Australian Ambassador to Republic of Korea (2001-2005); Director of Australian Commerce and Industry Office in Taiwan (1992-1997); Deputy Head of Mission in the Australian Embassy Beijing (1982-1985 and 1988-1992)
- Recently retired secretary of APEC and currently a senior associate with the Nautilus Institute and vice chairman of the Australia Korea Business Council
- Member of the Australian Institute of Company Directors

Contacts

For more information, please contact:

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www.sinogasenergy.com