## PETROLEUM LEASE (PL) 200, QUEENSLAND PROPOSED LATER DEVELOPMENT PLAN

**TENURE HOLDERS:** 

100.0%

ATED NRM ATE

Origin Energy CSG Limited South Court John Oxley Centre 339 Coronation Drive MILTON QLD 4064 A.B.N. 72 008 750 945

March 2006

#### 3. PROPOSED DEVELOPMENT PLAN (Section 138(1)(b))

#### 3.1 Key Components

The proposed development plan has the following key components and associated issues:

a) PL 200 covers the southern tip of the greater Spring Gully field. The north eastern part is covered by PL204, the north western part by PL 195 and the majority of the southern part is covered by PL 203. The remainder of the field is covered by ATP 592P.

Sch4p4(7)(1)(c) Business/commercial/professional/financial affairs

sch4p4(7)(1)(c) Business/commercial/professional/financial affairs

b)

sch4p4(7)(1)(c) Business/commercial/professional/financial affairs

c)

sch4p4(7)(1)(c) Business/commercial/professional/financial affairs

#### 3.2 Planned Activities (Section 138(1)(b)(i), (ii) and (iii), Regulation 14(1)(b))

Proposed development for the period 3 June 2006 to 2 June 2011 is outlined below.

sch4p4(7)(1)(c) Business/commercial/professional/financial affairs

#### 3.3 Additional Activities

#### 4. PRODUCTION FORECAST (Section 138(1)(c)(iii) and (v))

The forecast daily average production and yearly totals are shown is the following table:

	Gas		Wat	er
Year (3 June - 2 June)	Avg Rate (TJ/day)	Yearly Total (PJ)	Avg Rate (m³/day)	Yearly Total (ML)
2006-2007				
2007-2008				
2008-2009				
2009-2010				
2010-2011				
Total				

Average heating value is 36.9 MJ/m<sup>3</sup>

Historical water production since PL 200 was granted is as follows:

N. P.	Wat	er
Year	Forecast <sup>1</sup>	Actual
(3 June - 2 June)	(ML)	(ML)
2004-2005		
<b>2005-2006</b> p4(7)	1)(c) Business/com	mercial/profes
Total		
	2711	

<sup>&</sup>lt;sup>1</sup> Forecast water production was not included in the previous development plan



## Petroleum Lease (PL) 200

Later Development Plan - 3 June 2011 to 2 June 2016

Tenure Holder:

Australia Pacific LNG Pty Limited

100%

Petroleum Act 1923

Petroleum & Cas (Production & Safety) Act 2004

April 2011

Australia Pacific LNG Pty Limited - Level 3, 135 Coronation Drive, Milton, 4064 - GPO Box 148, Brisbane, 4001

#### 2.1 Potential Resources

sch4p4(7)(1)(c) Business/commercial/professional/financial affairs

3. PROPOSED DEVELOPMENT PLAN (Section 53A(1)(b))

#### 3.1 Key Components

The proposed development plan has the following key components and associated issues:

a) PL 200 covers the southern and south western areas of the greater Spring Gully field. The western, northern, eastern and south eastern parts of the field are covered by PL 204, PL 195, PL 203 (PL(A) 268) and ATP 592P being (PL(A) 414, 415, 416, 417, 418 and 419).

sch4p4(7)(1)(c) Business/commercial/professional/financial affairs

sch4p4(7)(1)(c) Business/commercial/professional/financial affairs

b)

sch4p4(7)(1)(c) Business/commercial/professional/financial affairs

3.2 Planned Activities (Section 53A(1)(a)(b), Section 53A(1)(d))

Proposed activities for the period 3 June 2011 to 2 June 2016 are outlined below.

sch4p4(7)(1)(c) Business/commercial/professional/financial affairs

See attached maps showing proposed location of exploration drilling program for the 5 year development period.

3.3 Reasons Why Plan is Considered Appropriate (Section 53A(1)(f))

sch4p4(7)(1)(c) Business/commercial/professional/financial affairs

3.4 For Each Year of the Plan Period: the Nature and Extent of Proposed Activities and the Estimated Cost of the Activities

The table below summarises activities to be undertaken over the 5 year later development plant period.

Year Nature and Extent of Activities

sch4p4(7)(1)(c) Business/commercial/professional/financial affairs

The cost of the development, including operating costs, is summarised in the following table:

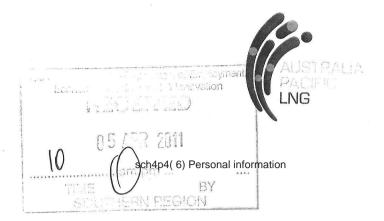
sch4p4(7)(1)(c) Business/commercial/professional/financial affairs

Total estimated cost for the development plan period is Business/commercial/professional/financial affairs

#### 3.5 Additional Activities

sch4p4(7)(1)(c) Business/commercial/professional/financial affairs

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5 April 2011

Registrar (Petroleum and Gas)
Queensland Mines and Energy
Department of Employment, Economic Development and Innovation
Po Box 1475
COORPAROO QLD 4151

Attention: Anthony Christensen

Old Mines & Energy Department of Employment, Economic Development & Innovation SOUTHERN REGION (MINES)

FEE 1000

DATE PAID 05/04/11

RECEIPT NO. BR 27/6029

FOR PLD PL: 200

INITIALS (CAGG BISSEL/C-0)

OMAIN

JNITIALS sch4p4(6) Personal information

**Dear Anthony** 

PL 200 - Proposed Later Development Plan - 3 June 2011 2 June 2016

Please find attached the proposed Later Development Plan (LDP) for PL 200 for the period 3 June 2011 - 2 June 2016. This LDP is required in accordance with section 74Q of the *Petroleum Act 1923*.

We note that the fee for lodging this LDP is set out in Schedule 2, Part 1, Item 7 of the *Petroleum Regulation 2004* as \$1000.00 and such was paid today at the time of lodging this LDP. Could you please provide by letter or by email an acknowledgement that this LDP was received by DEEDI to satisfy internal records and external stakeholder needs.

Please contact Greg Bissell, Tenures and Programme Manager on 3858 0649 or by email <a href="mailto:greg.bissell@originenergy.com.au">greg.bissell@originenergy.com.au</a> should you require any further information or have any queries concerning this LDP.

Yours faithfully

sch4p4(6) Personal information

Ross Evans Australia Pacific LNG Pty Limited Authorised Representative

Attachment - PL 200 Proposed Later Development Plan



#### 25 November 2010

The Petroleum Registrar Department of Employment, Economic Development and Innovation PO Box 15168 City East QLD 4003

Dear Sir,

Appointment of Authorised Representatives to execute certain documents on behalf of Australia Pacific LNG Pty Limited (ABN 68 001 646 331) and its subsidiaries ("APLNG Group")

Australia Pacific LNG Pty Limited (ABN 68 001 646 331) ("APLNG"), on behalf of itself and each other member of the APLNG Group, wish to advise the appointment of the following authorised representatives:

- Page Maxson, Project Director, APLNG;
- Mark McCabe, Chief Financial Officer, APLNG
- Martin Riley, General Manager Queensland CSG, Origin Energy; and
- Ross Evans, Manager Commercial and Systems Development, Origin Energy,

who are authorised to sign on behalf of APLNG and/or member(s) of the APLNG Group from time to time, documents relating to petroleum tenures, authorities and licences, including:

- 1. Applications for authorities to prospect ("ATPs"), petroleum leases ("PLs"), potential commercial areas ("PCAs"), pipeline licences ("PPLs"), petroleum facility licences ("PFLs"), data acquisition authorities, survey licences;
- 2. Renewal applications for PLs, ATPs, PCAs, PPLs, PFLs;
- 3. Application to divide ATPs/PLs;
- 4. Applications to amend licences;
- 5. Applications for permission to enter land (Part 5 Permission);
- 6. Competitive tenders to government for ATPs/PLs;
- 7. Relinquishment notices (in respect of ATPs);
- 8. Applications for replacement tenure under the Petroleum and Gas (Production and Safety) Act 2004;
- 9. Add excluded land to ATPs/PLs;
- 10. Relinquishment reports;
- 11. PL surrenders;
- 12. Transaction requests, including:
  - Subleases within PLs:
  - Mortgages (register, release, transfer and surrender);
  - Record change of name;
- 13. Extended production testing reports;
- 14. Later development plans (in respect of PLs);
- 15. Later work programs (in respect of ATPs);
- 16. Amendments to work programs for ATPs;
- 17. Amendments to development plans for PLs;
- 18. Applications for replacement of (e.g. lost, destroyed) instruments;
- 19. Lodgement of prescribed agreements; and

1

#### 20. Water monitoring authorities.

As at the date of this letter, the APLNG Group comprises of APLNG and the following wholly-owned subsidiaries of APLNG:

- Australia Pacific LNG (CSG) Pty Limited (ABN 23 099 577 769);
- Australia Pacific LNG (Moura) Pty Limited (ABN 95 064 989 813);
- Australia Pacific LNG CSG Transmissions Pty Limited (ACN 138 156 466);
- Australia Pacific LNG CSG Processing Pty Limited (ABN 66 109 043 487);
- Australia Pacific LNG CSG Marketing Pty Limited (ABN 72 008 750 945);
- Australia Pacific LNG Marketing Pty Limited (ACN 141 937 920);
- Australia Pacific LNG Gladstone Pipeline Pty Limited (ABN 68 144 653 921);
- Australia Pacific LNG Processing Pty Limited (ACN 141 937 948); and
- Australia Pacific LNG (Shared Facilities) Pty Limited (ACN 141 941 595).

If you have any questions or require any further information, please contact Mark Rowley, APLNG General Counsel on (07) 3858 0777 or mark.rowley@originenergy.com.au.

Yours faithfully

EXECUTED by AUSTRALIA PACIFIC LNG PTY LIMITED (ABN 68 001 646 331) in accordance with section 127(1) of the *Corporations Act 2001* (Cth) by authority of its directors:

sch4p4(6) Personal information

Signature of director

GRANT A. KING

Name of director (block letters)

sch4p4(6) Personal information

Signature /

of

diréctor/company

secretary\*

\*delete whichever is not applicable

#### HELEN HARDY

Name of director/company secretary\* (block letters)

\*delete whichever is not applicable

PL 100 - PROPOSED LATER DEVELOPMENT PLAN 3 June 2011 to 2 June 2016

Commercial-in-Confidence



# Petroleum Lease (PL) 200

Later Development Plan - 3 June 2011 to 2 June 2016

Tenure Holder:

Australia Pacific LNG Pty Limited

100%

Petroleum Act 1923

Petroleular & Cas (Production & Safety) Act 2004

Releas

PL 200 - PROPOSED LATER DEVELOPMENT PLAN 3 June 2011 to 2 June 2016

Commercial-in-Confidence

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1. OVERVIEW (Section 53A(1)(a) and (f), Section 53A(2)(a) and (b), Section 53B))

This proposed later development plan for PL 200 covers the period 3 June 2011 to 2 June 2016, being years eight to twelve of the 40 year lease period expiring on 2 June 2044.

PL 200 is located in the southern part of the Spring Gully coal seamp gas (field Business/commercial/professional/finance)

sch4p4(7)(1)(c) Business/commercial/professional/financial affairs

sch4p4(7)(1)(c) Business/commercial/professional/financial affairs

KASK, OMPAN

2. **RESERVES** (Section 53A(1)(c)(i)(ii), Regulation 7(1)(2))

#### **Potential Resources** 2.1

sch4p4(7)(1)(c) Business/commercial/professional/financial affairs

The proposed development plan has the following key components and associated issues:

PROPOSED DEVELOPMENT PLAN (Section 53A(1)(b))

3.1 Key Components

The proposed developments a) PL 200 covers the southern and south western areas of the greater Spring Gully field. The western, northern, eastern and south eastern parts of the field are covered by PL 204, PL 195, PL 203 (PL(A) 268) and ATP 592P being (PL(A) 414, 415, 416, 417, 418 and 419). sch4p4(7)(1)(c) Business/commercial/professional/financial affairs sch4p4(7)(1)(c) Business/commercial/professional/financial affairs

b)

#### 3.2 Planned Activities (Section 53A(1)(a)(b), Section 53A(1)(d))

Proposed activities for the period 3 June 2011 to 2 June 2016 are outlined below.

sch4p4(7)(1)(c) Business/commercial/professional/financial affairs

3.3 Reasons Why Plan is Considered Appropriate (Section 53A(1)(f))

sch4p4(7)(1)(c) Business/commercial/professional/financial affairs

3.4 For Each Year of the Plan Period: the Nature and Extent of Proposed Activities and the Estimated Cost of the Activities

The table below summarises activities to be undertaken over the 5 year later development plant period.

Year	Nature and Extent of Activities	

The cost of the development, including operating costs, is summarised in the following table:

Activity	Cost	Unit	Year	Year	Year	Year	Year	Total k A\$
	Cost	Omit	1	2	3	4	5	

sch4p4(7)(1)(c) Business/commercial/professional/financial affairs

Total estimated cost for the development period is usiness/commercial/professional/financial affairs

#### 3.5 Additional Activities

sch4p4(7)(1)(c) Business/commercial/professional/financial affairs

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#### 4. PRODUCTION FORECAST (Section 53A(1)(iii)(iv)(v))

sch4p4(7)(1)(c) Business/commercial/professional/financial affairs

Table 4.1: Production Forecast 3 June 2011 to 2 June 2016

YEAR	Gạs	Gas			
(3 June - 2 June)	Avg Rate E6 m³/day	Yearly Total E6 m³/year	Avg Rate ML/day	Yearly Total ML/year	
1					
2					
3		( <del></del> ) ( 1) ( )   D   :			
4	sch4p4	( /)(1)(c ) Business	/commercial/pro	fessional/financial affair	
5				- NI	
Total					

The historical gas and water production totals for PL 200 is as follows:

Table 4.2: Historical Production and Forecast 3 June 2006 to 2 June 2011

YEAR	Gas				
(3 June - 2 June)	Forecast Total E6 m³/vear	Actual Total E6 m³/vear	Forecast Total ML/year	Actual Total ML/year	
2006	·············				
2007	_				
2008					
2009	sch4p	4( 7)(1)(c ) Business/c	commercial/profession	al/financial affairs	
2010					
Total					

#### **ATTACHMENT 1**

## ADDITIONAL REQUIREMENTS FOR PROPOSED LATER DEVELOPMENT PLAN (Section 77ZB, Section 77ZC, Section 78)

#### 1. OVERVIEW

There are overlapping coal exploration tenements on PL 200.

sch4p4(7)(1)(c) Business/commercial/professional/financial affairs

#### 2. IDENTIFICATION AND DESCRIPTION OF RELEVANT COALS

sch4p4(7)(1)(c) Business/commercial/professional/financial affairs

#### 2.1 Walloon Subgroup

sch4p4(7)(1)(c) Business/commercial/professional/financial affairs

2.2 Bandanna Formation and Kaloola Member

sch4p4(7)(1)(c) Business/commercial/professional/financial affairs

3. RELEVANT PROPOSED LATER DEVELOPMENT PLAN ACTIVITIES

sch4p4(7)(1)(c) Business/commercial/professional/financial affairs

3.1 Proposed Operations and their likely impact on safe and efficient mining of coal from the Bandanna Formation / Kaloola Member

sch4p4(7)(1)(c) Business/commercial/professional/financial affairs

Surface Infrastructure

**Existing wells** 

sch4p4(7)(1)(c) Business/commercial/professional/financial affairs

Table A.1: Historical Production and Forecast 3 June 2006 to 2 June 2014

2011	2012	2013	2014	2015	
		Rusiness/commerci			

sch4p4(7)(1)(c) Business/commercial/professional/financial affairs

4. BUSINESS INTERESTS AND EFFECTS ON FUTURE DEVELOPMENT FOR THE RELEVANT PARTIES

LASK, OR

#### **Public Interest**

domestic market.

Queensland's coal seam gas sector (CSG) has grown rapidly in the past decade and now supplies about 20 per cent of eastern Australia's total gas needs. This expansion has generated new jobs, contributed to the growth of the regional economy in southern central Queensland and has seen a significant increase in royalties returned to the State of Queensland.

The Queensland Government has identified gas as a key transitional fuel source for reducing carbon emissions intensity while emerging renewable and clean coal technologies are being developed. This application supports Government policies including:

Queensland Government's Clean Fuels Policy Queensland Government's Climate Smart 2050 Policy 13% Gas Scheme (increased to 18% by 2020) Queensland Government's Blueprint for the LNG Industry Surat Basin Future Directions Statement Toward Q2: Tomorrow's Queensland



APLNG has the largest portfolio of independently certified CSG reserves/resources in Australia. It is the owner and/or operator of tenures in the Surat and Bowen Basins. APLNG has been operating in the Spring Gully area of PL 200 since 2003 and values the livelihood and well being of local farming communities. The Spring Gully petroleum activities are well established in the local area APLNG enjoys good landowner and indigenous relations. There is little likelihood of significant community impacts as a result of the proposed petroleum lease.

PL 200 is located some 60 kilometres north-east of Roma adjacent to the Spring Gully productions fields employing some 70 people.

Sch4p4(7)(1)(c) Business/commercial/professional/financial affairs

Existing or enhanced benefits will continue to be delivered to the regional and State economy. This intent aligns with the Queensland Government's stated aim of ensuring sufficient gas supplies continue to be available to the

Table A.2: Location data for wells within PL 200

Well Name	Longitude	Latitude	

sch4p4(7)(1)(c) Business/commercial/professional/financial affairs

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#### PL 200 - DETAILS ABOUT COMPLIANCE WITH PREVIOUS LATER DEVELOPMENT PLAN

#### Compliance

The Later Development Plan for the period 3 June 2006 - 2 June 2011 for PL 200 has been complied with.

sch4p4(7)(1)(c) Business/commercial/professional/financial affairs

sch4p4(7)(1)(c) Business/commercial/professional/financial affairs

Development Plan - 3 June 2006 - 2 June 2011

sch4p4(7)(1)(c) Business/commercial/professional/financial affairs

Details about compliance with previous Later Development Plan

PETROLEUM AND GAS (PRODUCTION AND SAFETY) ACT 2004

## **PETROLEUM LEASE NUMBER 200** APPROVED LATER DEVELOPMENT PLAN

HONOURABLE STIRLING HINCHLIFFE, MINISTER FOR THE EMPLOYMENT, SKILLS AND MINING for the State of Queensland, pursuant to section 147(1) of the Petroleum and Gas (Production and Safety) Act 2004 ("the Act"), approve the later development plan for Petroleum Lease Number 200 to expire on 2 June 2016. ASE ONRIN

sch4p4(6) Personal information

Jim Grundy Executive Director, Statewide Services Delegate of the Minister

Petroleum & Gas (Production and Safety) Act 2004 (Ministerial) Delegation (No.2) 2009

**Date Granted:** 

Author: Vlad Pavic File / Ref number: PL 200

Directorate / Unit: Petroleum Gas & Geothermal Unit

Phone: (07) 3406 2119

0 6 MAY 2011

Attn: Greg Bissell Australia Pacific LNG Pty Limited GPO Box 148 BRISBANE QLD 4001

Dear Greg,

#### RE: LATER DEVELOPMENT PLAN FOR PETROLEUM LEASE (PL) NUMBER 200

Thank you for providing the instrument of lease above as requested. Please find enclosed the instrument with the recently approved Later Development Plan attached.

Should you have any further enquiries, please contact Vlad Pavic, Tenures Officer of the Petroleum, Gas and Geothermal Unit of Mining and Petroleum Operations, Department of Employment, Economic Development and Innovation on telephone (07) 3406 2119 or via email at <a href="mailto:dmepetroleumtenures@dme.qld.gov.au">dmepetroleumtenures@dme.qld.gov.au</a>.

Yours sincerely

sch4p4(6) Personal information

Vlad Pavic
Tenures Officer
Mining and Petroleum Operations

Petroleum, Gas and Geothermal Unit Mining and Petroleum Operations
Department of Employment, Economic Development and Innovation Level 16, 61 Mary Street
BRISBANE QLD 4000
All Correspondence to:
Podium 2, Ground Floor
Cnr Main and Vulture Streets
Woolloongabba QLD 4102
PO Box 1475
Coorparoo QLD 4151 Australia
Telephone + 61 7 3238 3815
Facsimile + 61 7 3238 3188
Website www.dme.gld.gov.au



29 April 2011

Registrar (Petroleum and Gas) Petroleum, Gas and Geothermal Unit Mining and Petroleum Operations Department of Employment, Economic Development and Innovation PO Box 1475 Coorparoo QLD 4151

Attention: John McCormack

Dear John

Origin Instrument of Lease - PETROLEUM LEASE 200

I refer to your letter dated 21 April 2011 advising that the Later Development Plan for Petroleum Lease 200 ("PL200") is approved.

As requested please find enclosed the original instrument for PL200 for endorsement.

If you require further information regarding this matter please contact me on telephone 3858 0649 or via email Greg.bissell@originenergy.com.au/

Yours sincerely

sch4p4(6) Personal information

**Greg Bissell** Tenures and Programme Manager

Per: Encl.

as & Energy - Department of Employment, Economic Development & Innovation . RECEIVED 03 HAY 2011 sch4p4( 6) Personal information

**DL** Documents 29 of 30



Author: Trish O'Sullivan File / Ref number: PL 200

Directorate / Unit: Petroleum & Gas Unit

Phone: (07) 3405 4917

2 1 APR 2011

Attn: Greg Bissell Australia Pacific LNG Pty Limited GPO Box 148 BRISBANE QLD 4001

Dear Mr Bissell

RE: LATER DEVELOPMENT PLAN - PETROLEUM LEASE (PL) NUMBER 200

I refer to your later development plan received on 5 April 2014

Your application has been assessed, pursuant to section 147 of the *Petroleum and Gas* (*Production and Safety*) *Act 2004* as to whether it complies with the requirements for the approval of a later development plan.

After due consideration, it has been decided that the proposed later development plan be approved. Please forward the original instrument to the Petroleum & Gas Unit at the address below in order for the approved development plan for Petroleum Lease Number 200 to be attached.

Should you have any further enquiries, please contact Ms Trish O'Sullivan on telephone number (07) 3405 4917 or email <a href="mailto:dmepetroleumtenures@dme.qld.gov.au">dmepetroleumtenures@dme.qld.gov.au</a>.

Yours sincerely

sch4p4(6) Personal information

JIM GRUNDY

Executive Director Statewide Services

Statewide Services

Mines nent of Em

Department of Employment, Economic Development and Innovation Level 16, 61 Mary Street BRISBANE QLD 4000

All Correspondence to: Podium 2, Ground Floor Cnr Main and Vulture Streets Woolloongabba QLD 4102

PO Box 1475

Coorparoo QLD 4151 Australia Telephone + 61 7 32383817 Facsimile + 61 7 3405 5349 Website www.dme.qld.gov.au