INDEX OF DOCUMENTS HELD ON THE PUBLIC REGISTER FOR GEOTHERMAL RETENTION LICENCE GRL 20

1. 19 January 2009 Grant of Geothermal Retention Licence GRL 20 (ex GEL 99)

Interests: Geodynamics Limited 100%

Expiry Date: 18 January 2014

2. 19 January 2009 Memorandum entering GRL 20 on the public register.

3. 22 January 2009 Gazettal of grant of licence.

4. 1 February 2010 Memorandum entering notation of the following documents on the

public register.

Letter Confirming Assignment of a 30% Interest in

Geothermal Tenements dated 18 May 2009 between Geodynamics

Limited and Origin Energy Geothermal Pty Ltd.

Ref: SA 2009-64

Interests in the licence are:

Geodynamics Limited 70% Origin Energy Geothermal Pty Ltd 30%

Farmin Agreement dated 20 July 2009 between Geodynamics Limited, Origin Energy Geothermal Pty Ltd and Origin Energy Limited.

Ref: SA 2009-65

Joint Operating Agreement (Innamincka Joint Venture) dated 20 July 2009 between Geodynamics Limited and Origin Energy Geothermal Pty Ltd.

Ref: SA 2009-66

5. 13 July 2010 Memorandum entering notation of the following document on the public

register.

Memorandum of Understanding dated 24 February 2010 between Geodynamics Limited and Origin Energy Geothermal Pty Ltd.

Ref: SA 2010-40

6. 20 August 2010 Memorandum entering notation of the following document on

the public register.

Deed of Cross Charge dated 2 August 2010 between

Geodynamics Limited and Origin Energy Geothermal Pty Ltd.

Ref: SA 2010-45

7. 26 November 2010 Variation of licence conditions

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8. 26 November 2010 Memorandum entering variation of licence conditions on the public register. 9. 20 January 2011 Memorandum entering notation of the following document on the public register: Deed of Cross Charge (Shallows) dated 12 November 2010 between Geodynamics Limited and Origin Energy Geothermal Pty Ltd SA 2010-66 Ref: 10. 20 January 2011 Memorandum entering notation of the following document on the public register. Deed of Cross Charge (Deeps) dated 12 November 2010 between Geodynamics Limited and Origin Energy Geothermal Pty Ltd Ref: SA 2010-67 11. 23 February 2011 Memorandum entering notation of the following documents on the public register. The Coordination Deed dated 12 November 2010 between Geodynamics Limited, Origin Energy Geothermal Pty Ltd and Origin Energy Electricity Limited. Ref: SA 2010-64 The Joint Operating Agreement (Innamincka Shallows Joint Venture) dated 12 November 2010 between Geodynamics Limited and Origin Energy Geothermal Pty Ltd Ref: SA 2010-65 Deed of Amendment of Existing Deed of Cross Charge dated 12 November 2010 between Geodynamics Limited and Origin Energy Geothermal Pty Ltd Ref: SA 2010-68 12. 24 February 2011 Memorandum entering notation of receipt of security on the public register. 13. 14 June 2011 Memorandum entering notation of revision to security arrangements on the public register. 14. 12 April 2013 Deferment of licence conditions 15. 12 April 2013 Memorandum entering deferment of licence conditions on the public register. 16. 8 January 2015 Memorandum entering notation of extension of time of the offer to renew licence to 23 January 2015 on the public register.

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17.	2 February 2015	Renewal of licence	
		Expiry date of GRL 20 is now 18 January 2019	
		Interest in the licence:	
		Geodynamics Limited Origin Energy Geothermal Pty Ltd	70% 30%
18.	2 February 2015	Memorandum entering renewal of licence, effective from 19 January 2014 on the public register.	
19.	24 May 2016	Surrender of licence with effect from 18 January 2016.	
20.	24 May 2016	Memorandum entering surrender of licence on the public register.	
21.	2 June 2016	Gazettal of surrender of licence.	

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PETROLEUM AND GEOTHERMAL ENERGY ACT 2000

Surrender of Geothermal Retention Licences—GRLs 20, 21, 22, 23 and 24

NOTICE is hereby given that I have accepted surrender of the abovementioned geothermal retention licences under the provisions of the Petroleum and Geothermal Energy Act 2000, pursuant to delegated powers dated 21 March 2012:

No of Licence	Licensee	Locality	Effective Date of Surrender	Reference
GRL 20 GRL 21 GRL 22 GRL 23 GRL 24	Geodynamics Limited Origin Energy Geothermal Pty Ltd	Cooper Basin	18.1.2016	27/2/550

Dated 24 May 2016.

B. A. GOLDSTEIN, Executive Director, Energy Resources Division, Department of State Development, Delegate of the Minister for Mineral Resources and Energy

MEMORANDUM

GEOTHERMAL RETENTION LICENCES GRLs 20, 21, 22, 23 and 24

Surrender of the abovementioned Geothermal Retention Licences with effect from 18 January 2016 is hereby entered on the public register.

BARRY A. GOLDSTEIN
Executive Director
Energy Resources Division
Department of State Development
Delegate of the Minister for Mineral Resources and Energy

Date: 24 May 2016

Ref: 27/2/550

SURRENDER OF GEOTHERMAL RETENTION LICENCES GRLs 20, 21, 22, 23 and 24

I, BARRY ALAN GOLDSTEIN, Executive Director, Energy Resources Division, Department of State Development, in the State of South Australia, pursuant to the provisions of section 89(2) of the *Petroleum and Geothermal Energy Act 2000* and all other enabling powers, for and on behalf of Tom Koutsantonis, Minister for Mineral Resources and Energy (Minister), pursuant to delegated powers dated 21 March 2012, hereby accept the surrender of Geothermal Retention Licences GRLs 20, 21, 22, 23 and 24 in the name of Geodynamics Limited (ACN 095 006 090) and Origin Energy Geothermal Pty Ltd (ACN 128 159 277) with effect from 18 January 2016.

Dated: 24 May 2016

BARRY A. GOLDSTEIN

Executive Director

Energy Resources Division

Department of State Development

Delegate of the Minister for Mineral Resources and Energy

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MEMORANDUM

RENEWAL OF GEOTHERMAL RETENTION LICENCES GRLs 20, 21, 22, 23 and 24

1. Renewal of these licences, effective from 19 January 2014 is hereby entered on the public registers.

Expiry date: 18 January 2019

2. Interests in the licence are:

Geodynamics Limited 70% Origin Energy Geothermal Pty Ltd 30%

BARRY A. GOLDSTEIN

Executive Director

Energy Resources Division

Department of State Development

Delegate of the Minister for Mineral Resources and Energy

Date: 2 February 2015

File: 27/2/550

FIRST RENEWAL OF GEOTHERMAL RETENTION LICENCE GRL 20

I, BARRY ALAN GOLDSTEIN, Executive Director, Energy Resources Division, Department of State Development, in the State of South Australia, pursuant to the provisions of the *Petroleum and Geothermal Energy Act 2000* and all other enabling powers, for and on behalf of Tom Koutsantonis, Minister for Mineral Resources and Energy (Minister), pursuant to delegated powers dated 21 March 2012, HEREBY GRANT to:

Geodynamics Limited ACN 095 006 090

Origin Energy Geothermal Pty Ltd ACN 128 159 277

(hereinafter referred to as the Licensee) a Retention Licence in relation to a source of geothermal energy in respect of the area set out below, to have effect for a term of five years with effect from 19 January 2014 and to expire on 18 January 2019 and carrying the right to renewal subject to the provisions of the *Petroleum and Geothermal Energy Act 2000*.

DESCRIPTION OF AREA

The land comprised in this licence is that part of the State of South Australia described in the Schedule hereto.

CONDITIONS

- 1. During the term of the licence, the Licensee is authorised to carry out in the licence area -
 - (a) operations -
 - (i) to establish the nature and extent of a discovery of geothermal energy; and
 - (ii) to establish the commercial feasibility of production and appropriate production techniques; and
 - (iii) other regulated activities specified in the licence.
- 2. All regulated activities authorised by this licence are classified as requiring high level official surveillance, unless the Licensee satisfies the Minister that, in view of the Licensee's demonstrated competence to comply with the requirements of the Act and the conditions of this Licence, the activities should be classified as requiring low level official surveillance.
 - 2.1 The Minister's prior written approval is required for activities requiring high level official surveillance in accordance with the Regulation 19 of the Regulations to the Act.

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- 3. The Licensee shall during periods determined by the Minister, lodge and maintain with the Minister, in the form acceptable to the Minister, for the satisfaction of obligations arising under the Act or this licence, a security of \$50,000 (fifty thousand dollars) or such greater sum as specified by the Minister from time to time ("the Security").
 - 3.1 The Security shall be lodged in the form of either;
 - (a) cash; or
 - (b) an unconditional, irrevocable bank guarantee or letter of credit in a form, and from a financial institution, approved by the Minister,
 - 3.2 Interest will not be payable by the Minister to the Licensee on any cash Security.
 - 3.3 All charges incurred by the Licensee in obtaining and maintaining the Security shall be met by the Licensee.
 - 3.4 If upon expiry, this Licence is not renewed and the Minister is satisfied that there are no further obligations under this Licence or the Act, the Minister will return the Security to the Licensee.

4. The Licensee must:

- maintain in force during the term of this licence public liability insurance to cover regulated activities under this licence (including sudden and accidental pollution) in the name of the Licensee for a sum not less than twenty million dollars (\$20,000,000.00) or such greater sum as specified by the Minister, and make such amendments to the terms and conditions of the insurance as the Minister may from time to time require;
- (b) maintain in force during the drilling of any well or operation in any well, control of well insurance in the name of the Licensee for a sum not less than ten million dollars (\$10,000,000.00) or such greater sum as specified by the Minister, and make such amendments to the terms and conditions of the insurance as the Minister may from time to time require; and
- upon request by the Minister, provide the Minister with a cover note or certificate of currency of each insurance policy referred to in paragraphs (a) and (b).
- 5. The Minister in specifying the levels of insurance accepts no liability for the completeness of their listing, the adequacy of the sum insured, the limit of liability, the scoped coverage, the conditions or exclusions of these insurances in respect to how they may or may not respond to any loss, damage or liability.
- 6. The Licensee will ensure, when preparing an Environmental Impact Report under Part 12 of the *Petroleum and Geothermal Energy Act 2000*, that the report also includes an assessment of the potential economic consequences for other licensees under the *Petroleum and Geothermal Energy Act 2000* or *Mining Act 1971* and owners of land, arising out of proposed regulated activities to be carried out in the licence area.
- 7. A contract or agreement entered into by the licensee to transfer or accept liability for any well or facility constructed for the purpose of undertaking a regulated activity under the *Petroleum Act 1940* or *Petroleum and Geothermal Energy Act 2000* cannot transfer, limit or exclude liability under the *Petroleum and Geothermal Energy Act 2000* unless written consent of the Minister is obtained.

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Date: 2 February 2015

BARRY A. GOLDSTEIN

Executive Director

Energy Resources Division

Department of State Development

Delegate of the Minister for Mineral Resources and Energy

EXECUTED BY THE LICENSEES:

EXECUTED by **Geodynamics Limited** (ACN 095 006 090) in accordance with Section 127 of the Corporations Act 2001 (Cth): Signature of Director Signature of Director/Secretary* [Print Name of Director] [Print Name of Director/Secretary*] (*delete the inapplicable) **EXECUTED** by Origin Energy Geothermal Pty Ltd (ACN 128 159 277) in accordance with Section 127 of the Corporations Act 2001 (Cth): Signature of Director Signature of-Director/Secretary* MARTA KIELICH KAREN ANNE MOSES

[Print Name of Director]

[Print Name of Director/Secretary*]

(*delete the inapplicable)

THE SCHEDULE

GEOTHERMAL RETENTION LICENCE

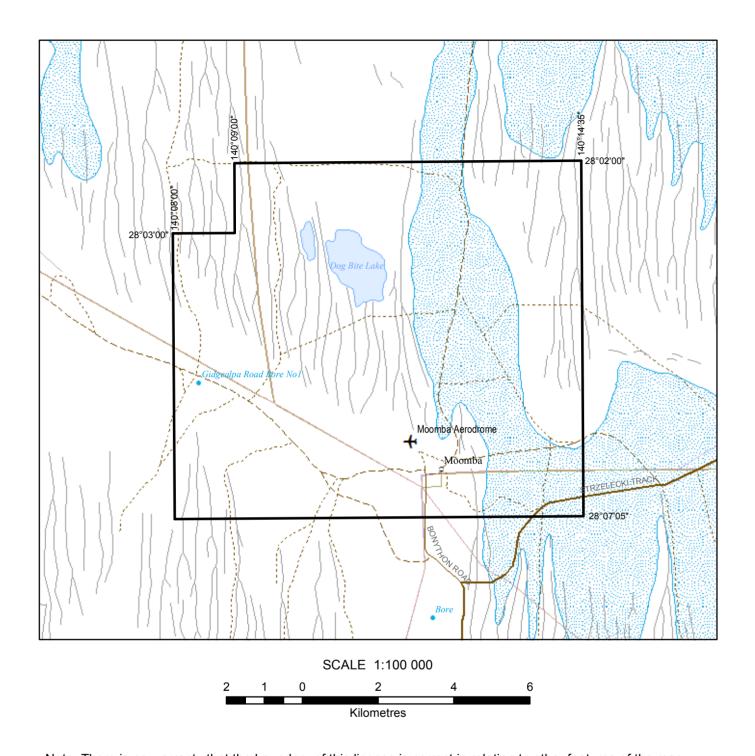
GRL 20

DESCRIPTION OF AREA

All that part of the State of South Australia, bounded as follows:-

Commencing at a point being the intersection of latitude 28°02'00"S GDA94 and longitude 140°09'00"E GDA94, thence east to longitude 140°14'35"E GDA94, south to latitude 28°07'05"S GDA94, west to longitude 140°08'00"E GDA94, north to latitude 28°03'00"S GDA94, east to longitude 140°09'00"E GDA94, and north to the point of commencement.

AREA: 98.2 square kilometres approximately.



Note: There is no warranty that the boundary of this licence is correct in relation to other features of the map. The boundary is to be ascertained by reference to the Geocentric Datum of Australia (GDA94) and the schedule.

THE PLAN HEREINBEFORE REFERRED TO

GEOTHERMAL RETENTION LICENCE NO: 20



SR 27/2/550a AREA: **98.2** sq km (approx)

MEMORANDUM

GEOTHERMAL RETENTION LICENCES GRLs 20, 21, 22, 23 and 24

1. Notation of extension of time to 23 January 2015 by which the licensees must accept the offer for renewal of Geothermal Retention Licences (GRLs) 20, 21, 22, 23 and 24 is hereby entered on the public register.

BARRY A. GOLDSTEIN

Executive Director

Energy Resources Division

Department of State Development

Delegate of the Minister for Mineral Resources and Energy

Date: 8 January 2015

File: 27/2/550

MEMORANDUM

GEOTHERMAL RETENTION LICENCES GRLs 20, 21, 22, 23 and 24

1. Deferment of work program commitment is hereby entered on the public register.

BARRY A. GOLDSTEIN

Executive Director

Energy Resources Division

Department for Manufacturing, Innovation, Trade, Resources and Energy

Delegate of the Minister for Mineral Resources and Energy

Date: 12 April 2013

Ref: 27/2/550

DEFERMENT OF WORK PROGRAM

GEOTHERMAL RETENTION LICENCES GRLs 20, 21, 22, 23 and 24

- I, BARRY ALAN GOLDSTEIN, Executive Director Energy Resources Division, Department for Manufacturing, Innovation, Trade, Resources and Energy, in the State of South Australia, pursuant to the provisions of the *Petroleum and Geothermal Energy Act 2000* and all other enabling powers, for and on behalf of Tom Koutsantonis, Minister for Mineral Resources and Energy (Minister), pursuant to delegated powers dated 21 March 2012 hereby -
 - (a) defer the requirement to drill a well during the term of GRLs 20 24 in accordance with licence condition 2, such that the well must now be drilled during the subsequent renewal term of the licences.

Dated: 12 April 2013

BARRY A. GOLDSTEIN

Executive Director

Energy Resources Division

Department for Manufacturing, Innovation, Trade, Resources and Energy

Delegate of the Minister for Mineral Resources and Energy

MEMORANDUM

GEOTHERMAL EXPLORATION LICENCES GELs 211, 268

GEOTHERMAL RETENTION LICENCES GRLs 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 20, 21, 22, 23, 24

 Notation of revision of security arrangements is hereby entered on the public register.

BARRY A. GOLDSTEIN

Executive Director Petroleum and Geothermal

Minerals and Energy Resources

Primary Industries and Resources SA

Delegate of the Minister for Mineral Resources

Development

Date: 14 June 2011

File: 27/2/344, F2011/074,

27/2/423, 27/2/424, 27/2/425, 27/2/426, 27/2/427, 27/2/428, 27/2/429, 27/2/430, 27/2/431,

27/2/432, 27/2/550

MEMORANDUM

GEOTHERMAL EXPLORATION LICENCE GEL 268

AND

GEOTHERMAL RETENTION LICENCES GRLs 20, 21, 22, 23 and 24

Notation of receipt of security is hereby entered on the public register.

BARRY A. GOLDSTEIN

Rea Dea

Director Petroleum and Geothermal
Minerals and Energy Resources
Primary Industries and Resources SA
Delegate of the Minister for Mineral Resources
Development

Date: 24 February 2011

File: F2011/000074

27/2/550

MEMORANDUM

GEOTHERMAL RETENTION LICENCES GRLs 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 20, 21, 22, 23 and 24

and

GEOTHERMAL EXPLORATION LICENCE GEL 211

SA 2010-64 Notation of the Coordination Deed dated 12 November 2010 between Geodynamics Limited, Origin Energy Geothermal Pty Ltd and Origin Energy Electricity Limited is hereby entered on the public register.

SA 2010-65 Notation of the Joint Operating Agreement (Innamincka Shallows Joint Venture) dated 12 November 2010 between Geodynamics Limited and Origin Energy Geothermal Pty Ltd is hereby entered on the public register.

SA 2010-68 Notation of the Deed of Amendment of Existing Deed of Cross Charge dated 12 November 2010 between Geodynamics Limited and Origin Energy Geothermal Pty Ltd is hereby entered on the public register.

BARRY A. GOLDSTEIN

Director Petroleum and Geothermal Minerals and Energy Resources Primary Industries and Resources SA Delegate of the Minister for Mineral Resources Development

Date: 23 February 2011

Ref: 27/2/344 27/2/428 27/2/423 27/2/429 27/2/424 27/2/430 27/2/425 27/4/431 27/2/426 27/2/432 27/2/427 27/2/550

MEMORANDUM

GEOTHERMAL RETENTION LICENCES GRLs 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 20, 21, 22, 23 and 24

GEOTHERMAL EXPLORATION LICENCE GEL 211

SA 2010-66 Notation of the Deed of Cross Charge (Shallows) dated 12

November 2010 between Geodynamics Limited and Origin Energy Geothermal Pty Ltd is hereby entered on the public

register.

SA 2010-67 Notation of the Deed of Cross Charge (Deeps) dated 12

November 2010 between Geodynamics Limited and Origin Energy Geothermal Pty Ltd is hereby entered on the public

register.

C. D. COCKSHELL

A/Director Petroleum and Geothermal

Minerals and Energy Resources

Primary Industries and Resources SA

Delegate of the Minister for Mineral Resources Development

Date: 20 January 2011

Ref: 27/2/344 27/2/428

27/2/423 27/2/429 27/2/424 27/2/430 27/2/425 27/4/431 27/2/426 27/2/432 27/2/427 27/2/550

MEMORANDUM

GEOTHERMAL RETENTION LICENCES GRLs 20, 21, 22, 23 and 24

1. Variation of licence conditions is hereby entered on the public register.

BARRY A. GOLDSTEIN

Director Petroleum and Geothermal Minerals and Energy Resources Primary Industries and Resources SA Delegate of the Minister for Mineral Resources Development

Date: 26 November 2010

Ref: 27/2/550

VARIATION OF GEOTHERMAL RETENTION LICENCES GRLs 20, 21, 22, 23 and 24

I, BARRY ALAN GOLDSTEIN, Director Petroleum and Geothermal, Minerals and Energy Resources, Department of Primary Industries and Resources, in the State of South Australia, pursuant to section 76(3)(b) of the *Petroleum and Geothermal Energy Act 2000* and all other enabling powers, for and on behalf of Paul Holloway, Minister for Mineral Resources Development (Minister), pursuant to delegated powers dated 1 October 2009 hereby vary the conditions of Geothermal Retention Licences GRLs 20, 21, 22, 23 and 24 held by -

Geodynamics Limited ACN 095 006 090

Origin Energy Geothermal Pty Ltd ACN 128 159 277

The geothermal retention licences are varied by amending the licences granted 19 January 2009 as follows:

Clause 8 of the licence is hereby revoked.

Dated: 26 NOVember 2010

BARRY A. GOLDSTEIN

Director Petroleum and Geothermal

Minerals and Energy Resources

Primary Industries and Resources SA

Delegate of the Minister for Mineral Resources Development

The following signature evidences the consent of the Licensees to the Variation of Conditions of Geothermal Retention Licences GRLs 20, 21, 22, 23 and 24 as set out in this document and made pursuant to Section 76(3)(b) of the *Petroleum and Geothermal Energy Act 2000*.

Executed for and on behalf of:

Geodynamics Limited ACN 095 006 090
Date 23/11/10
Signature
Name HOWARD COOMBES. Position ENVIRONMENT 9 APPROVACS MANAGER
Position ENVIRONMENT 9 APPROVACS MANAGER
Executed for and on behalf of:
Origin Energy Geothermal Pty Ltd ACN 128 159 277
Date 22-11-10
Signature
Name
Owen Hobbs Positio Fastern Australia Onshore Asset Manager Positio Finality Australia Onshore Asset Manager

MEMORANDUM

GEOTHERMAL EXPLORATION LICENCE GEL 211

GEOTHERMAL RETENTION LICENCES GRLs 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 20, 21, 22, 23 and 24

SA 2010–45 Notation of registrable dealing as evidenced by Deed of Cross Charge dated 2 August 2010 between Geodynamics Limited and Origin Energy Geothermal Pty Ltd is hereby entered on the public register.

BARRY A. GOLDSTEIN

Director Petroleum and Geothermal Minerals and Energy Resources Primary Industries and Resources SA Delegate of the Minister for Mineral Resources Development

Date: 20 August 2010

Ref: 27/2/344 27/2/428 27/2/423 27/2/429 27/2/424 27/2/430 27/2/425 27/2/431 27/2/426 27/2/432 27/2/427 27/2/550

MEMORANDUM

GEOTHERMAL EXPLORATION LICENCE GEL 211

GEOTHERMAL RETENTION LICENCES GRLs 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 20, 21, 22, 23 and 24

SA 2010–40 Notation of registrable dealing as evidenced by Memorandum of Understanding dated 24 February 2010 between Geodynamics Limited and Origin Energy Geothermal Pty Ltd is hereby entered on the public

register.

BARRY A. GOLDSTEIN

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Director Petroleum and Geothermal Minerals and Energy Resources Primary Industries and Resources SA Delegate of the Minister for Mineral Resources Development

Date: 13 July 2010

Ref: 27/2/344 27/2/428 27/2/423 27/2/429 27/2/424 27/2/430 27/2/425 27/2/431 27/2/426 27/2/432 27/2/427 27/2/550

MEMORANDUM

GEOTHERMAL RETENTION LICENCES GRLs 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 20, 21, 22, 23 AND 24

GEOTHERMAL EXPLORATION LICENCE GELs 211

SA 2009-64

Notation of registrable dealing as evidenced by Letter Confirming Assignment of a 30% Interest in Geothermal Tenements dated 18 May 2009 between Geodynamics Limited and Origin Energy Geothermal Pty Ltd is hereby entered on the public register.

Interests in the licences are:

Geodynamics Limited 70% Origin Energy Geothermal Pty Ltd 30%

SA 2009-65

Notation of registrable dealing as evidenced by Farmin Agreement dated 20 July 2009 between Geodynamics Limited, Origin Energy Geothermal Pty Ltd and Origin Energy Limited is hereby entered on the public register.

SA 2009-66

Notation of registrable dealing as evidenced by Joint Operating Agreement (Innamincka Joint Venture) dated 20 July 2009 between Geodynamics Limited and Origin Energy Geothermal Pty Ltd is hereby entered on the public register

MICHAEL MALAYAZOS

A/Director Petroleum and Geothermal Minerals and Energy Resources

Primary Industries and Resources SA

Delegate of the Minister for Mineral Resources Development

Date: 1 February 2010

Ref: 27/2/344 27/2/428 27/2/423 27/2/429 27/2/424 27/2/430 27/2/425 27/2/431 27/2/426 27/2/432 27/2/427 27/2/550

PETROLEUM ACT 2000

Grant of Geothermal Retention Licences—GRLs 20, 21, 22, 23 and 24

PURSUANT to section 92 (1) of the Petroleum Act 2000, notice is hereby given that the undermentioned Geothermal Retention Licences have been granted under the provisions of the Petroleum Act 2000, pursuant to delegated powers dated 28 March 2002, *Gazetted* 11 April 2002, page 1573.

No. of Licence	Licensee	Locality	Date of Expiry
GRL 20			18 January 2014
GRL 21		Cooper Basin of South Australia	
GRL 22	Geodynamics Limited		
GRL 23			
GRL 24			

Description of Area—GRL 20

All that part of the State of South Australia, bounded as follows:

Commencing at a point being the intersection of latitude 28°02′00″S GDA94 and longitude 140°09′00″E GDA94, thence east to longitude 140°14′35″E GDA94, south to latitude 28°07′05″S GDA94, west to longitude 140°08′00″E GDA94, north to latitude 28°03′00″S GDA94, east to longitude 140°09′00″E GDA94 and north to the point of commencement.

Area: 98.2 km² approximately.

Description of Area—GRL 21

All that part of the State of South Australia, bounded as follows:

Commencing at a point being the intersection of latitude 28°07′05″S GDA94 and longitude 140°08′00″E GDA94, thence east to longitude 140°14′35″E GDA94, south to latitude 28°13′00″S GDA94, west to longitude 140°11′00″E GDA94, north to latitude 28°12′00″S GDA94, west to longitude 140°00′00″E GDA94, north to latitude 28°11′00″S GDA94, west to longitude 140°09′00″E GDA94, north to latitude 28°10′00″S GDA94, west to longitude 140°08′00″E GDA94 and north to the point of commencement.

Area: 99.6 km² approximately.

Description of Area—GRL 22

All that part of the State of South Australia, bounded as follows:

Commencing at a point being the intersection of latitude 28°02′00″S GDA94 and longitude 140°14′35″E GDA94, thence east to longitude 140°17′35″E GDA94, south to latitude 28°13′00″S GDA94, west to longitude 140°14′35″E GDA94 and north to the point of commencement.

Area: 99.7 km² approximately.

Description of Area—GRL 23

All that part of the State of South Australia, bounded as follows:

Commencing at a point being the intersection of latitude 28°02′00″S GDA94 and longitude 140°17′35″E GDA94, thence east to longitude 140°20′00″E GDA94, south to latitude 28°03′00″S GDA94, east to longitude 140°23′00″E GDA94, south to latitude 28°04′00″S GDA94, east to longitude 140°24′00″E GDA94, south to latitude 28°07′55″S GDA94, west to longitude 140°17′35″E GDA94 and north to the point of commencement.

Area: 99.7 km² approximately.

Description of Area—GRL 24

All that part of the State of South Australia, bounded as follows:

Commencing at a point being the intersection of latitude 28°07′55″S GDA94 and longitude 140°17′35″E GDA94, thence east to longitude 140°24′00″E GDA94, south to latitude 28°13′00″S GDA94, west to longitude 140°17′35″E GDA94 and north to the point of commencement.

Area: 98.5 km² approximately.

Dated 19 January 2009.

 M. MALAVAZOS, Acting Director Petroleum and Geothermal Minerals and Energy Resources
 Primary Industries and Resources SA
 Delegate of the Minister for Mineral Resources Development

Petroleum Act 2000 S.115

MEMORANDUM

GEOTHERMAL RETENTION LICENCES GRLs 20, 21, 22, 23 AND 24

- 1. These Licences granted on 19 January 2009 are hereby entered on the public register.
- 2. Interests in the licence are:-

Geodynamics Limited

100%

MICHAEL MALAVAZOS

A/Director Petroleum and Geothermal

Minerals and Energy Resources

Primary Industries and Resources SA

Delegate of the Minister for Mineral Resources Development

Date: 19 January 2009

File: 27/2/550

Petroleum Act 2000

GEOTHERMAL RETENTION LICENCE GRL 20

I, BARRY ALAN GOLDSTEIN, Director Petroleum and Geothermal, Minerals and Energy Resources, Primary Industries and Resources, in the State of South Australia pursuant to the provisions of the *Petroleum Act 2000* and all other enabling powers, for and on behalf of Paul Holloway, Minister for Mineral Resources Development (Minister), pursuant to delegation dated 28 March 2002, (refer Government Gazette dated 11 April 2002 page 1573), HEREBY GRANT to:

Geodynamics Limited ACN 095 006 090

(hereinafter referred to as the Licensee) a Retention Licence in relation to a source of geothermal energy in respect of the area set out below, to have effect for a term of five years and to expire on 18 January 2014 and carrying the right to renewal subject to the provisions of the *Petroleum Act 2000*.

DESCRIPTION OF AREA

The land comprised in this licence is that part of the State of South Australia described in the Schedule hereto.

CONDITIONS

- 1. During the term of the licence, the Licensee is authorised to carry out in the licence area -
 - (a) operations -
 - (i) to establish the nature and extent of a discovery of geothermal energy; and
 - (ii) to establish the commercial feasibility of production and appropriate production techniques; and
 - (iii) other regulated activities specified in the licence
- 2. During the term of the licence, the licensee shall carry out or cause to be carried out the drilling of one well on the area comprised within GRLs 20, 21, 22, 23 and 24.
- 3. The Licensee shall during periods determined by the Minister, lodge and maintain with the Minister, in the form acceptable to the Minister, for the satisfaction of obligations arising under the Act or this licence, a security of \$50,000 (fifty thousand dollars) or such greater sum as specified by the Minister from time to time ("the Security").
 - 3.1 The Security shall be lodged in the form of either;
 - (a) cash; or
 - (b) an unconditional, irrevocable bank guarantee or letter of credit in a form, and from a financial institution, approved by the Minister,
 - 3.2 Interest will not be payable by the Minister to the Licensee on any cash Security.

- 3.3 All charges incurred by the Licensee in obtaining and maintaining the Security shall be met by the Licensee.
- 3.4 If upon expiry, this Licence is not renewed and the Minister is satisfied that there are no further obligations under this Licence or the Act, the Minister will return the Security to the Licensee.

4. The Licensee must:

- (a) maintain in force during the term of this licence public liability insurance to cover regulated activities under this licence (including sudden and accidental pollution) in the name of the Licensee for a sum not less than twenty million dollars (\$20,000,000.00) or such greater sum as specified by the Minister, and make such amendments to the terms and conditions of the insurance as the Minister may from time to time require;
- (b) maintain in force during the drilling of any well or operation in any well, control of well insurance in the name of the Licensee for a sum not less than ten million dollars (\$10,000,000.00) or such greater sum as specified by the Minister, and make such amendments to the terms and conditions of the insurance as the Minister may from time to time require; and
- (c) upon request by the Minister, provide the Minister with a cover note or certificate of currency of each insurance policy referred to in paragraphs (a) and (b).
- 5. The Minister in specifying the levels of insurance accepts no liability for the completeness of their listing, the adequacy of the sum insured, the limit of liability, the scoped coverage, the conditions or exclusions of these insurances in respect to how they may or may not respond to any loss, damage or liability.
- 6. The Licensee will ensure, when preparing an Environmental Impact Report under Part 12 of the *Petroleum Act 2000*, that the report also includes an assessment of the potential economic consequences for other licensees under the *Petroleum Act 2000* or *Mining Act 1971* and owners of land, arising out of proposed regulated activities to be carried out in the licence area.
- 7. A contract or agreement entered into by the licensee to transfer or accept liability for any well or facility constructed for the purpose of undertaking a regulated activity under the *Petroleum Act 1940* or *2000* cannot transfer, limit or exclude liability under the *Petroleum Act 2000* unless written consent of the Minister is obtained.
- 8. The licensee shall, each year, no later than two months prior to the anniversary date of the licence, provide a written statement specifying the work program proposed for the forthcoming licence year, for approval by the Minister.

Date: 19 January 2009

BARRY A. SOLDSTEIN MICHAEL MALAVAZOS

b/ Director Petroleum and Geothermal Minerals and Energy Resources Primary Industries and Resources SA

Delegate of the Minister for Mineral Resources

Development

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Signed by the said LICENSEE

Date: 11/12/08
Authorised Representative
D WYBORN Name
Olif Scentific Officer
Georgianis Limbel

PETROLEUM RETENTION LICENCE

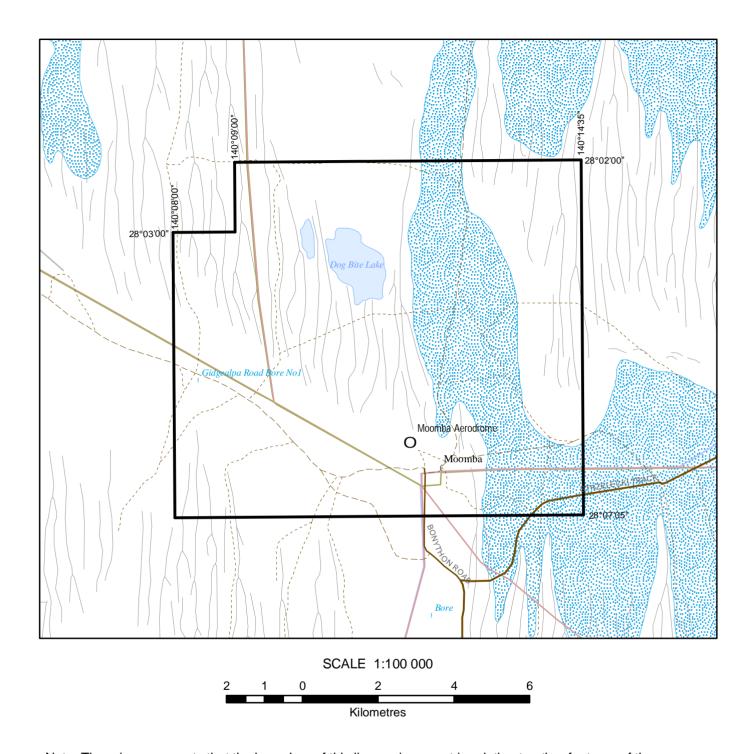
GRL 20

DESCRIPTION OF AREA

All that part of the State of South Australia, bounded as follows:-

Commencing at a point being the intersection of latitude 28°02'00"S GDA94 and longitude 140°09'00"E GDA94, thence east to longitude 140°14'35"E GDA94, south to latitude 28°07'05"S GDA94, west to longitude 140°08'00"E GDA94, north to latitude 28°03'00"S GDA94, east to longitude 140°09'00"E GDA94, and north to the point of commencement.

AREA: 98.2 square kilometres approximately.



Note: There is no warranty that the boundary of this licence is correct in relation to other features of the map. The boundary is to be ascertained by reference to the Geocentric Datum of Australia (GDA94) and the schedule.

THE PLAN HEREINBEFORE REFERRED TO

GEOTHERMAL RETENTION LICENCE NO: 20



SR 27/2/550a AREA: **98.2** sq km (approx)