

## INDEX OF DOCUMENTS HELD ON THE PUBLIC REGISTER FOR GEOTHERMAL EXPLORATION LICENCE GEL 206

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- |                      |   |
|----------------------|---|
| 1. 21 April 2005     | Memorandum entering GEL 206 on the public register.<br><br>Expiry Date: 20 April 2010   |
| 2. 21 April 2005     | Geothermal Exploration Licence GEL 206<br><br>Interest:<br>Perilya Geothermal Energy Pty Ltd                      50%<br>Green Rock Energy Pty Ltd                                50%               |
| 3. 28 April 2005     | Gazettal of Grant of GEL 206  |
| 4. 22 September 2005 | Memorandum of notation of receipt of security.  |
| 5. 16 December 2005  | Notation of change of Company names:<br><br>From: Perilya Geothermal Energy Pty Ltd<br>To: Green Rock Geothermal Pty Ltd<br><br>From: Green Rock Energy Pty Ltd<br>To: Green Heat Resources Pty Ltd |
| 6. 7 June 2006       | Suspension of GEL 206 from and including 7 June 2006 to 18 July 2006.<br><br>New expiry date: 1 June 2010   |
| 7. 7 June 2006       | Memorandum entering suspension on the public register.  |
| 8. 15 June 2006      | Gazettal of Suspension  |
| 9. 30 May 2007       | Memorandum entering variation on the public register.   |
| 10. 27 April 2009    | Suspension of licence from and including 30 April 2009 to 31 July 2009.<br><br>New expiry date of GEL 206 is now 2 September 2010.  |
| 11. 27 April 2009    | Memorandum entering suspension of licence on the public register.   |
| 12. 30 April 2009    | Gazettal of suspension of licence.  |

13. 15 December 2009 Variation of Licence Conditions.
14. 15 December 2009 Memorandum entering variation on public register.
15. 27 August 2010 Renewal of licence effective from 3 September 2010.
- GEL 206 is now due to expire 2 September 2015.
- Interests in the licence:  
Green Heat Resources Pty Ltd 50%  
Green Rock Geothermal Pty Ltd 50%
16. 27 August 2010 Memorandum entering renewal of licence on the public register.
17. 23 December 2016 Memorandum entering notation of discharge of security on the public register.

***Petroleum and Geothermal Energy Act 2000***  
**S.115**

**MEMORANDUM**

**GEOHERMAL EXPLORATION LICENCES**  
**GELs 128, 206, 213, 244, 245, 246, 247, 248, 282, 283, 284, 366,**  
**367, 368, 369, 370, 371, 372, 373, 374, 375, 376 and 557**

1. Notation of discharge of security is hereby entered on the public registers.



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

Date: 23 December 2016

Ref: 27/2/00230  
27/2/00335  
27/2/00356  
27/2/00403 – 27/2/00407  
27/2/00448 – 27/2/00450  
27/2/00521  
F2010/000241

***Petroleum and Geothermal Energy Act 2000***  
**S.115**

**MEMORANDUM**

**RENEWAL OF  
GEOTHERMAL EXPLORATION LICENCE  
GEL 206**

1. Renewal of this licence, effective from 3 September 2010 is hereby entered on the public register.

Expiry date: 2 September 2015

2. Interests in the licence are:

Green Heat Resources Pty Ltd	50%
Green Rock Geothermal Pty Ltd	50%



**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: 27 August 2010

File: 27/2/335

# ***Petroleum and Geothermal Energy Act 2000***

## **FIRST RENEWAL OF GEOTHERMAL EXPLORATION LICENCE GEL 206**

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 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 GRANT to:

**Green Heat Resources Pty Ltd**  
ACN 096 036 396

**Green Rock Geothermal Pty Ltd**  
ACN 112 162 964

(hereinafter referred to as the Licensee) an Exploration Licence in relation to a source of geothermal energy in respect of the area set out below, to have effect from 3 September 2010 and to expire on 2 September 2015.

### **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 shall carry out or cause to be carried out exploratory operations on the area comprised in the licence in accordance with such work programs as are approved by the Minister from time to time. Year one exploratory operations are guaranteed, and any subsequent licence year work program becomes guaranteed upon entry into any such licence year. These exploratory operations shall include but *not* necessarily be limited to -

<b>Year of Term of Licence</b>	<b>Minimum Work Requirements</b>
One	<ul style="list-style-type: none"><li>• Geological and geophysical studies</li></ul>
Two	<ul style="list-style-type: none"><li>• Geological and geophysical studies</li></ul>
Three	<ul style="list-style-type: none"><li>• Geological and geophysical studies</li></ul>
Four	<ul style="list-style-type: none"><li>• Geological and geophysical studies</li></ul>
Five	<ul style="list-style-type: none"><li>• Drill one deep well up to 3,500m; and</li><li>• Geological and geophysical studies</li></ul>

2. In the event that the Licensee during any year of the term of this licence (a year being the period of twelve calendar months ending on the anniversary of the date upon which this licence comes into force) fails to comply with the work program requirements of this licence, it is an express term of this licence that the Minister may, at his discretion, either cancel this licence or authorise such variation to these requirements as the Minister thinks fit.
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.
4. The Licensee must:
  - (a) upon commencement of regulated activities under this licence, 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;
  - (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 and Geothermal Energy Act 2000*, that the report also includes an assessment of the potential economic consequences for other Licensee 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 the *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.


Date: 27 August 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

Signed by the said LICENSEE

Date: 23 August 2010

  
.....  
Authorised Representative

ADAM CLARK  
.....  
Name

DIRECTOR OF OPERATIONS  
.....  
Position

GREEN ROCK ENERGY LTD  
.....  
Company

Signed by the said LICENSEE

Date: 23 AUGUST 2010

  
.....  
Authorised Representative

NIGEL HODDER  
.....  
Name

COMPANY SECRETARY  
.....  
Position

GREEN ROCK ENERGY LTD.  
.....  
Company

## **GEOHERMAL EXPLORATION LICENCE**

**GEL 206**

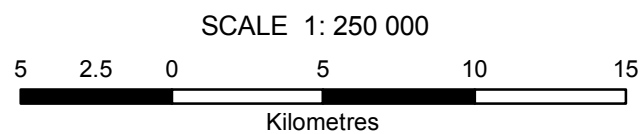
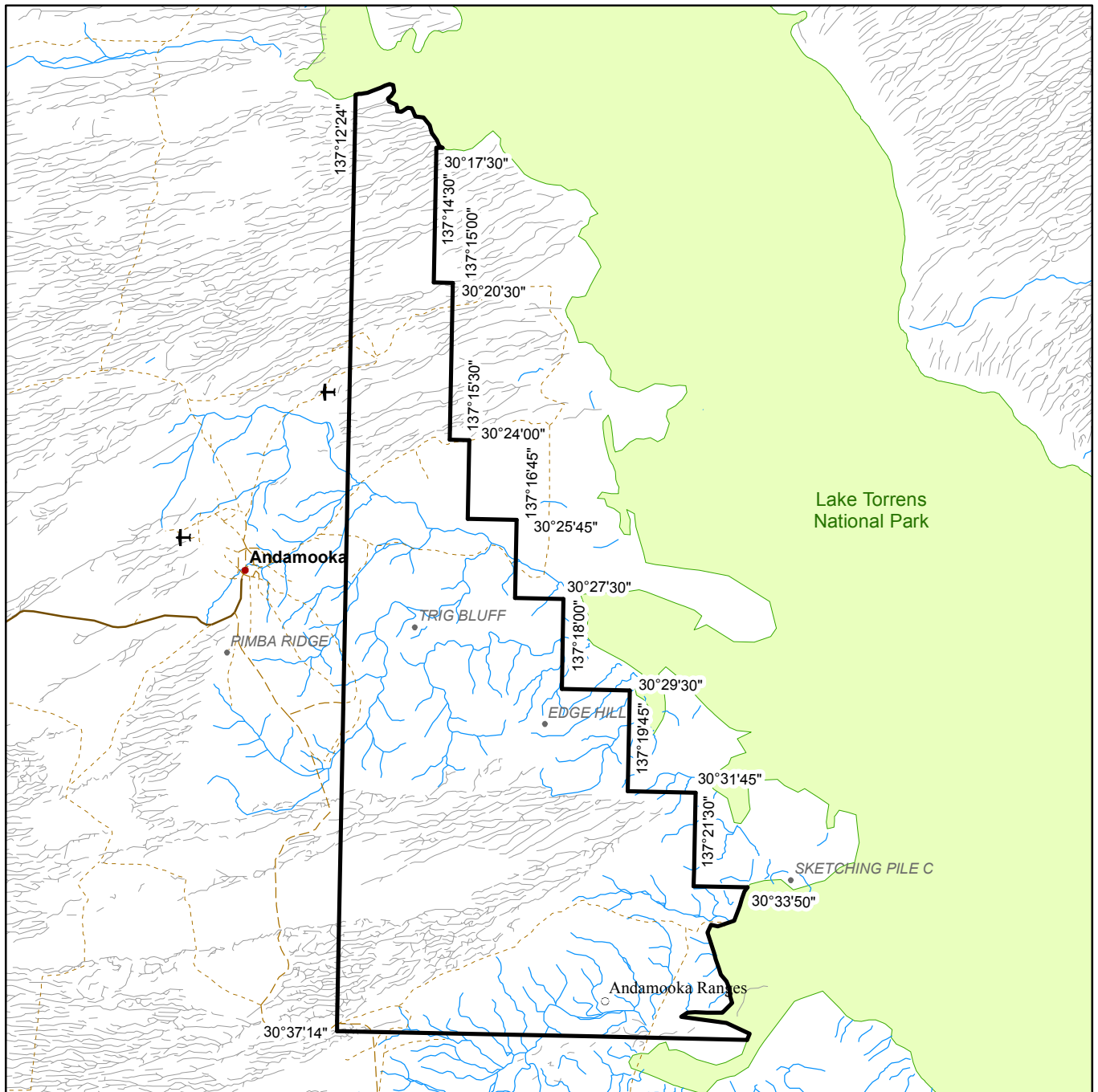
### **DESCRIPTION OF AREA**

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

Commencing at a point being the intersection of longitude 137°12'24"E GDA94 and a southern boundary of the Lake Torrens National Park, thence beginning north-easterly following the said National Park boundary to latitude 30°17'30"S GDA94, west to longitude 137°14'30"E GDA94, south to latitude 30°20'30"S GDA94, east to longitude 137°15'00"E GDA94, south to latitude 30°24'00"S GDA94, east to longitude 137°15'30"E GDA94, south to latitude 30°25'45"S GDA94, east to longitude 137°16'45"E GDA94, south to latitude 30°27'30"S GDA94, east to longitude 137°18'00"E GDA94, south to latitude 30°29'30"S GDA94, east to longitude 137°19'45"E GDA94, south to latitude 30°31'45"S GDA94, east to longitude 137°21'30"E GDA94, south to latitude 30°33'50"S GDA94, east to a western boundary of the Lake Torrens National Park, then beginning south-westerly following the said National Park boundary to latitude 30°37'14"S GDA94, west to longitude 137°12'24"E GDA94 and north to the point of commencement.

AREA: **328** 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 Australian Geodetic Datum (AGD66), the Geocentric Datum of Australia (GDA94) and the schedule.

THE PLAN HEREINBEFORE REFERRED TO

**GEOHERMAL EXPLORATION LICENCE NO: 206**



Government of South Australia  
Primary Industries and Resources SA

SR 27/2/335

AREA: 328 sq km (approx)

**Petroleum and Geothermal Energy Act 2000  
S.115**

**MEMORANDUM**

**GEOHERMAL EXPLORATION LICENCES  
GELs 128, 129, 161, 162, 163, 206 and 213**

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: 15 December 2009

Ref: 27/2/230; 27/2/231; 27/2/275;  
27/2/276; 27/2/277; 27/2/335;  
27/2/356;

# Petroleum and Geothermal Energy Act 2000

## VARIATION OF GEOTHERMAL EXPLORATION LICENCE GEL 206

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 25 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 vary the conditions of the above-mentioned licence, held by -

**Green Heat Resources Pty Ltd  
Green Rock Geothermal Pty Ltd**

Condition 1 of the licence is omitted and the following substituted:

- “ 1. During the term of the licences, the Licensee shall carry out or cause to be carried out exploratory operations on the area comprised in the licences in accordance with such work programs as are approved by the Minister from time to time. Year one exploratory operations are guaranteed, and any subsequent licence year work program becomes guaranteed upon entry into any such licence year. These exploratory operations shall include but not necessarily be limited to:-

Year of Term of Licence	Minimum Work Requirements
One	<ul style="list-style-type: none"><li>Review of existing geological data and assessment of the technical application of the latest "Hot Dry Rock" technology.</li><li>Evaluation of electric power market and preliminary economic assessment of the technology.</li></ul>
Two	<ul style="list-style-type: none"><li>Borehole breakout analysis of Blanche No. 1 well – to ascertain magnitude of principal horizontal stresses.</li><li>Geological and geophysical studies.</li><li><i>Note: Year 2 work program to be conducted anywhere within the boundaries of GELs 128, 129, 161, 162, 163, 206 and 213.</i></li></ul>
Three	<ul style="list-style-type: none"><li>Mini-fracture stimulation in Blanche No. 1 well.</li><li>Geological and geophysical studies.</li><li><i>Note: Year 3 work program to be conducted anywhere within the boundaries of GELs 128, 129, 161, 162, 163, 206 and 213.</i></li></ul>
Four	<ul style="list-style-type: none"><li>Geological and geophysical studies</li></ul>
Five	<ul style="list-style-type: none"><li>Geological and geophysical studies.</li></ul>

”

Dated: 15 December 2009



**BARRY A. GOLDSTEIN**  
**Director Petroleum and Geothermal**  
**Minerals and Energy Resources**  
**Primary Industries and Resources SA**  
**Delegate of the Minister for Mineral Resources Development**

## PETROLEUM ACT 2000

*Suspension of Geothermal Exploration Licences—  
GELs 128, 129, 161, 162, 163, 206 and 213*

PURSUANT to section 90 of the Petroleum Act 2000, notice is hereby given that the abovementioned Geothermal Exploration Licences have been suspended under the provisions of the Petroleum Act 2000, from and including 30 April 2009 until 31 July 2009, pursuant to delegated powers dated 28 March 2002, *Gazetted* 11 April 2002, page 1573.

The expiry date of GELs 128, 129, 161, 162 and 163 is now determined to be 2 September 2009.

The expiry date of GEL 206 is now determined to be 2 September 2010.

The expiry date of GEL 213 is now determined to be 2 September 2011.

Dated 27 April 2009.

B. A. GOLDSTEIN,  
Director Petroleum and Geothermal  
Minerals and Energy Resources  
Primary Industries and Resources SA  
Delegate of the Minister for Mineral  
Resources Development

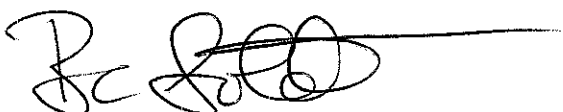
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***Petroleum Act 2000***  
**S.115**

**MEMORANDUM**

**GEOHERMAL EXPLORATION LICENCES  
GELs 128, 129, 161, 162, 163, 206 AND 213**

1. Suspension of licences from and including 30 April 2009 to 31 July 2009 is hereby entered on the public register.
2. The expiry date of GELs 128, 129, 161, 162 and 163 is now 2 September 2009.
3. The expiry date of GEL 206 is now 2 September 2010.
4. The expiry date of GEL 213 is now 2 September 2011.



**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: 27 April 2009

Ref:	27/2/230	27/2/277
	27/2/231	27/2/335
	27/2/275	27/2/356
	27/2/276	

***Petroleum Act 2000***  
**S.90**

**SUSPENSION OF  
GEOTHERMAL EXPLORATION LICENCES  
GELs 128, 129, 161, 162, 163, 206 AND 213**

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 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 delegated powers dated 28 March 2002, Gazetted 11 April 2002, page 1573 –

(a) suspend geothermal exploration licences exploration licence GELs 128, 129, 161, 162, 163, 206 and 213 for the period from and including 30 April 2009 to 31 July 2009.

1. No regulated activities are permitted to be carried out during the period of the suspension.
2. The expiry date of GELs 128, 129, 161, 162 and 163 is now 2 September 2009.
3. The expiry date of GEL 206 is now 2 September 2010.
4. The expiry date of GEL 213 is now 2 September 2011.

Dated: 27 April 2009



**BARRY A. GOLDSTEIN**  
**Director Petroleum and Geothermal**  
**Minerals and Energy Resources**  
**Primary Industries and Resources SA**  
**Delegate of the Minister for Mineral Resources Development**

# Petroleum Act 2000

## VARIATION OF GEOTHERMAL EXPLORATION LICENCE GEL 206

I, BARRY ALAN GOLDSTEIN, Director Petroleum and Geothermal, Minerals and Energy Division, Department of Primary Industries and Resources in the State of South Australia, pursuant to section 25 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 delegated powers dated 28 March 2002, Gazetted 11 April 2002, page 1573 vary the conditions of geothermal exploration licence GEL 206, held by -

### **Green Heat Resources Pty Ltd Green Rock Geothermal Pty Ltd**

Condition 1 of the licence is omitted and the following substituted:

- “ 1. During the term of the licence, the Licensee shall carry out or cause to be carried out exploratory operations on the area comprised in the licence in accordance with such work programs as are approved by the Minister from time to time. Year one exploratory operations are guaranteed, and any subsequent licence year work program becomes guaranteed upon entry into any such licence year. These exploratory operations shall include but not necessarily be limited to:-

Year of Term of Licence	Minimum Work Requirements
One	<ul style="list-style-type: none"><li>• Review of existing geological data and assessment of the technical application of the latest 'Hot Dry Rock' technology.</li><li>• Evaluation of electric power market and preliminary economic assessment of the technology.</li></ul>
Two	<ul style="list-style-type: none"><li>• Borehole breakout analysis of Blanche No. 1 well – to ascertain magnitude of principal horizontal stresses.</li><li>• Geological and geophysical studies.</li></ul> <p><i>Note: Year 2 work program to be conducted anywhere within the boundaries of GELs 128, 129, 161, 162, 163, 206 and 213.</i></p>
Three	<ul style="list-style-type: none"><li>• Mini-fracture stimulation in Blanche No. 1 well.</li><li>• Geological and geophysical studies.</li></ul> <p><i>Note: Year 3 work program to be conducted anywhere within the boundaries of GELs 128, 129, 161, 162, 163, 206 and 213.</i></p>
Four	<ul style="list-style-type: none"><li>• Drill a deep well (4,500 to 6,000 metres).</li><li>• Fracture stimulation.</li><li>• Microseismic monitoring.</li></ul> <p><i>Note: Year 4 work program to be conducted anywhere within the boundaries of GELs 128, 129, 161, 162, 163, 206 and 213.</i></p>

Five	<ul style="list-style-type: none"><li>• Geological and geophysical studies.</li></ul>
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Dated: 30 May 2007

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**BARRY A. GOLDSTEIN**  
**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**

**GEOHERMAL EXPLORATION LICENCES**  
**GEL 128, 129, 161, 162, 163, 206 and 213**

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: 30 May 2007

Ref: 27/2/230  
27/2/231  
27/2/275  
27/2/276  
27/2/277  
27/2/355  
27/2/356

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PETROLEUM ACT 2000

*Suspension of Geothermal Exploration Licences—  
GEL 206 and GEL 213*

PURSUANT to section 90 of the Petroleum Act 2000, notice is hereby given that pursuant to delegated powers dated 28 March 2002, *Gazetted* 11 April 2002, page 1573, the abovementioned Exploration Licences have been suspended under the provisions of the Petroleum Act 2000 as follows:

GEL 206—from and including 7 June 2006 to 18 July 2006;

GEL 213—from and including 7 June 2006 to 14 February 2007.

The expiry date of Exploration Licences GEL 206 and GEL 213 is now determined to be 1 June 2010 and 1 June 2011 respectively.

Dated 7 June 2006.

B. A. GOLDSTEIN,  
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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***Petroleum Act 2000***  
**S.115**

**MEMORANDUM**

**GEOHERMAL EXPLORATION LICENCE  
GEL 206**

1. Suspension of licence from and including 7 June 2006 to 18 July 2006 is hereby entered on the public register.
2. Expiry date of GEL 206 is now 1 June 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**

Date: 7 June 2006

Ref: 27/2/335

***Petroleum Act 2000***  
**S.90**

**SUSPENSION OF  
GEOTHERMAL EXPLORATION LICENCE GEL 206**

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 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 delegated powers dated 28 March 2002, Gazetted 11 April 2002, page 1573 –

(a) suspend geothermal exploration licence GEL 206 for the period from and including 7 June 2006 to 18 July 2006.

1. No regulated activities are permitted to be carried out during the period of the suspension.
2. The expiry date of GEL 206 is now determined to be 1 June 2010.

Dated: 7 June 2006



**BARRY A. GOLDSTEIN**  
**Director Petroleum and Geothermal**  
**Minerals and Energy Resources**  
**Primary Industries and Resources SA**  
**Delegate of the Minister for Mineral Resources Development**

ADRIAN LARKING  
PO BOX 637  
WEST PERTH WA 6872

Remove this top section if desired before framing

## Certificate of Registration on Change of Name

This is to certify that

**GREEN ROCK ENERGY PTY. LTD.**

**Australian Company Number 096 036 396**

did on the tenth day of May 2005 change its name to

**GREEN HEAT RESOURCES PTY LTD**

**Australian Company Number 096 036 396**

The company is a proprietary company.

The company is limited by shares.

The company is registered under the Corporations Act 2001 and  
is taken to be registered in South Australia and the date  
of commencement of registration is the twenty-seventh day of February, 2001.

Issued by the  
Australian Securities and Investments Commission  
on this tenth day of May, 2005.



Jeffrey Lucy  
Chairman



CERTIFICATE

PERILYA GEOTHERMAL ENERGY PTY LTD  
Level 2  
31 Ventnor Avenue  
WEST PERTH WA 6005

Remove this top section if desired before framing

## Certificate of Registration on Change of Name

This is to certify that

**PERILYA GEOTHERMAL ENERGY PTY LTD**

**Australian Company Number 112 162 964**

did on the seventeenth day of June 2005 change its name to

**GREEN ROCK GEOTHERMAL PTY LTD**

**Australian Company Number 112 162 964**

The company is a proprietary company.

The company is limited by shares.

The company is registered under the Corporations Act 2001 and  
is taken to be registered in Western Australia and the date  
of commencement of registration is the tenth day of December, 2004.

COPY

Issued by the  
Australian Securities and Investments Commission  
on this seventeenth day of June, 2005.



Jeffrey Lucy  
Chairman



CERTIFICATE

***Petroleum Act 2000***  
**S.115**

**MEMORANDUM**

**GEOHERMAL EXPLORATION LICENCES**  
**GEL 128, GEL 129, GEL 161, GEL 162, GEL 163 and GEL 206**

1. Notation of change of company name –

From: Perilya Geothermal Energy Pty Ltd  
To: Green Rock Geothermal Pty Ltd

is hereby entered on the public register of licences.

2. Notation of change of company name –

From: Green Rock Energy Pty Ltd  
To: Green Heat Resources Pty Ltd

is hereby entered on the public register of licences.



**BARRY A. GOLDSTEIN**  
**Director Petroleum**  
**Minerals and Energy Resources**  
**Delegate of the Minister for Mineral Resources**  
**Development**

Date: 16 December 2005

File: 27/2/230  
27/2/231  
27/2/275  
27/2/276  
27/2/277  
27/2/335

***Petroleum Act 2000***  
**S.115**

**MEMORANDUM**

**GEOHERMAL EXPLORATION LICENCES**  
**GELs 128, 129, 161, 162, 163, 206 and 213**

1. Notation of lodgement of security is hereby entered on the public register.

A handwritten signature in black ink, appearing to read 'Barry Goldstein', with a long horizontal stroke extending to the right.

**BARRY A. GOLDSTEIN**  
**Director Petroleum**  
**Minerals and Energy Resources**  
**Primary Industries and Resources SA**  
**Delegate of the Minister for Mineral Resources**  
**Development**

Date: 22 September 2005

File: 27/2/356



## PETROLEUM ACT 2000

*Grant of Geothermal Exploration Licence—GEL 206*

NOTICE is hereby given that the undermentioned Geothermal Exploration Licence has 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	Approximate Area in km <sup>2</sup>	Reference
GEL 206	Perilya Geothermal Energy Pty Ltd and Green Rock Energy Pty Ltd	Roxby Downs, South Australia	494	27/02/335

*Description of Area—GEL 206*

All that part of the State of South Australia, bounded as follows: Commencing at a point being the intersection of longitude 137°12'24"E GDA94 and latitude 30°37'14"S GDA94, thence north to the western boundary of Lake Torrens National Park, thence generally south-easterly and southerly along the boundary of the said National Park to latitude 30°37'14"S GDA94 and west to the point of commencement.

Area: 494 km<sup>2</sup> approximately.

Dated 21 April 2005.

B. A. GOLDSTEIN, Director Petroleum  
Minerals and Energy Division  
Primary Industries and Resources SA  
Delegate of the Minister for Mineral Resources Development

**Petroleum Act 2000  
S.115**

**MEMORANDUM**

**GEOHERMAL EXPLORATION LICENCE  
GEL 206**

1. This Licence granted on 21 April 2005 is hereby entered on the public register.
2. Interests in the licence are:-

Perilya Geothermal Energy Pty Ltd	50%
Green Rock Energy Pty Ltd	50%



**BARRY A. GOLDSTEIN**  
**Director Petroleum**  
**Minerals and Energy Division**  
**Primary Industries and Resources SA**  
**Delegate of the Minister for Mineral Resources Development**

Date: 21 April 2005

Ref: 27/2/335

# **PETROLEUM ACT 2000**

## **GEOHERMAL EXPLORATION LICENCE**

### **GEL 206**

I, BARRY ALAN GOLDSTEIN, Director Petroleum, Minerals and Energy Division, 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:

#### **Perilya Geothermal Energy Pty Ltd**

ACN: 112 162 964

#### **Green Rock Energy Pty Ltd**

ACN: 096 036 396

(hereinafter referred to as the Licensees) an Exploration Licence in relation to a source of geothermal energy in respect of the area set out below, to have effect for a period of five years and to expire on 20 April 2010 but carrying the right of renewal under 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 Licensees shall carry out or cause to be carried out, exploratory operations on the area comprised in the licence in accordance with such work programs as are approved by the Minister from time to time. Year one exploratory operations are guaranteed, and any subsequent licence year work program becomes guaranteed upon entry into any such licence year. These exploratory operations shall include but not necessarily be limited to:-

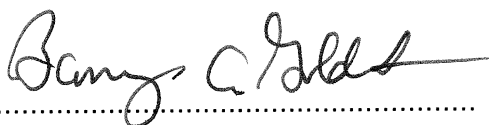
<b>Year of Term of Licence</b>	<b>Minimum Work Requirements</b>
<b>One</b>	<ul style="list-style-type: none"><li>• Review of existing geological data and assessment of the technical application of the latest "Hot Dry Rock" technology.</li><li>• Evaluation of electric power market and preliminary economic assessment of the technology.</li></ul>
<b>Two</b>	<ul style="list-style-type: none"><li>• Design and plan a stratigraphic well to evaluate temperatures, stress regimes and rock characteristics at depth.</li></ul>
<b>Three</b>	<ul style="list-style-type: none"><li>• Drill stratigraphic well to depth of 1,500 – 2,000 metres.</li></ul>

<b>Four</b>	<ul style="list-style-type: none"> <li>• Evaluate results of stratigraphic well.</li> <li>• Re-evaluation of the economics of "Hot Dry Rock" technology.</li> <li>• Design an appropriate pilot program.</li> </ul>
<b>Five</b>	<ul style="list-style-type: none"> <li>• Drill a pilot well to assess the geothermal energy potential of the Hot Dry Rock regime</li> </ul>

2. The Licensees must take all reasonable precautions to minimise the risks of its activities resulting in a significant loss of petroleum reserves or a significant reduction in the recovery of petroleum reserves.
3. The Licensees must:
  - (a) upon commencement of regulated activities under this licence, 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 Licensees 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;
  - (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).
4. 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.
5. The Licensees 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.
6. The Licensees must keep confidential any measurements made in a well which would enable the estimation of petroleum reserves ("Confidential Information") and must not disclose the Confidential Information without first obtaining the written consent of the licensee of the overlapping compatible licence, unless:
  - (a) it is a disclosure required under the Act, this licence or any other law;
  - (b) it is a disclosure which is for the purposes of prosecuting or defending any legal proceedings; or
  - (c) it is information which is or becomes public knowledge other than by breach of this licence condition.

7. A contract or agreement entered into by the licensees 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. In the event that the Licensees during any year of the term of this licence (a year being the period of twelve calendar months ending on the anniversary of the date upon which the licence comes into force) fails to comply with the work program requirements of this licence, it is an express term of this licence that the Minister then may use discretion to either cancel this licence or authorise such variation to these requirements as the Minister thinks fit.
9. The Licensees shall during periods determined by the Minister, lodge and maintain with 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”).
  - 9.1 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,
  - 9.2 Interest will not be payable by the Minister to the Licensees on any cash Security.
  - 9.3 All charges incurred by the Licensees in obtaining and maintaining the Security shall be met by the Licensees.
  - 9.4 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 Licensees.

Date: 21 April.....2005

  
.....  
**BARRY A. GOLDSTEIN**  
**Director Petroleum**  
**Minerals and Energy Division**  
**Primary Industries and Resources SA**  
**Delegate of the Minister for Mineral Resources Development**

**Signed by the said LICENSEE**

Date: 28 March 2005

Adrian Larking  
Authorised Representative

ADRIAN LARKING  
Name

DIRECTOR  
Position

GREEN ROCK ENERGY PTY LTD  
Company

[Signature]  
Witness

SIMON ASHTON  
Name

DIRECTOR  
Position

GREEN ROCK ENERGY PTY LTD  
Company

**Signed by the said LICENSEE**

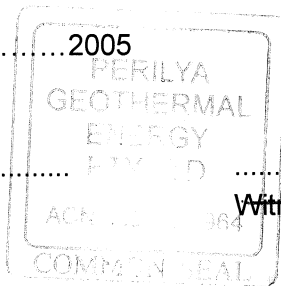
Date: 4TH APRIL 2005

P.C. Lockyer  
Authorised Representative

P. LOCKYER  
Name

DIRECTOR  
Position

PERILYA GEOTHERMAL ENERGY PTY LTD  
Company



[Signature]  
Witness

AT TRACUS  
Name

Company Secretary  
Position

PERILYA GEOTHERMAL ENERGY PTY LTD  
Company

# **GEOHERMAL EXPLORATION LICENCE**

**GEL 206**

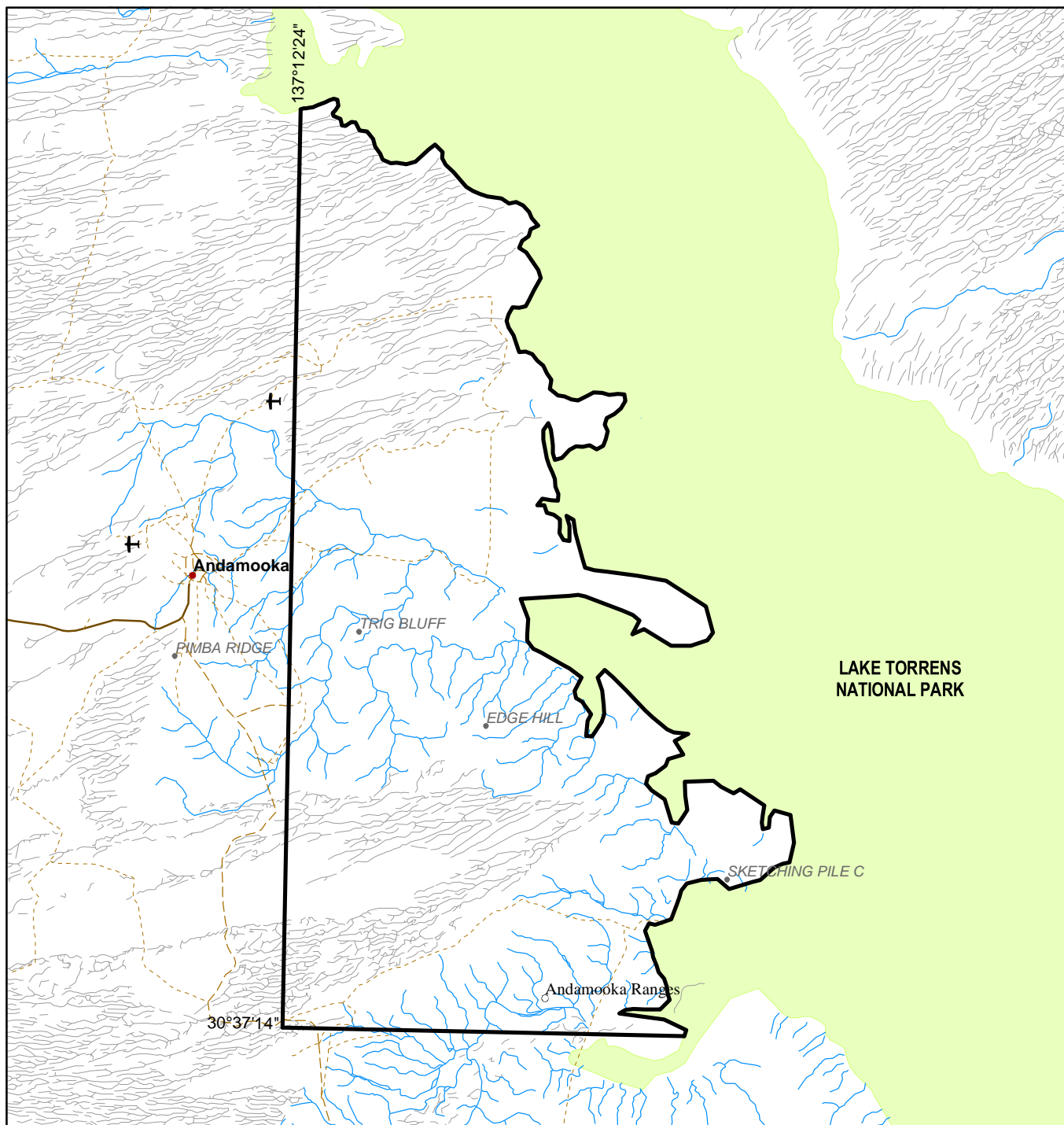
## **THE SCHEDULE**

### **Description of Area**

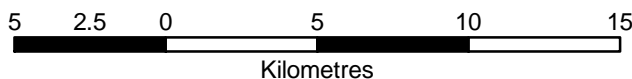
All that part of the State of South Australia, bounded as follows:-

Commencing at a point being the intersection of longitude 137°12'24"E GDA94 and latitude 30°37'14"S GDA94, thence north to the western boundary of Lake Torrens National Park, thence generally southeasterly and southerly along the boundary of the said National Park to latitude 30°37'14"S GDA94 and west to the point of commencement.

AREA: 494 square kilometres approximately.



SCALE 1:250 000



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  
**GEOHERMAL EXPLORATION LICENCE NO: 206**