

**INDEX OF DOCUMENTS HELD ON THE PUBLIC REGISTER FOR  
GEOTHERMAL EXPLORATION LICENCE GEL 557**

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1. 29 June 2010            Geothermal Exploration Licence GEL 557 granted  
  
   Interests:  
  
   Green Rock Energy Limited            100%  
  
   Expiry Date: 28 June 2015
2. 29 June 2010            Memorandum entering the grant of GEL 557 on the public register.
3. 1 July 2010             Gazettal of grant of licence.
4. 15 October 2012        Variation of licence conditions.
5. 15 October 2012        Memorandum entering variation of licence conditions on the public register.
6. 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**

**GEOHERMAL EXPLORATION LICENCES**  
**GELs 128 and 557**

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



**BARRY A. GOLDSEIN**  
**Executive Director**  
**Energy Resources Division**  
**Department for Manufacturing, Innovation, Trade, Resources and Energy**  
**Delegate of the Minister for Mineral Resources and Energy**

Date: 15 October 2012

Ref: 27/2/230  
F2010/000241

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

## **VARIATION OF GEOTHERMAL EXPLORATION LICENCE GEL 557**

I, BARRY A. 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 vary the conditions of the above-mentioned licence, held by -

**Green Rock Energy Limited**  
ACN 094 551 336

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

" 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>
<b>One</b>	<ul style="list-style-type: none"><li>• Geological and geophysical studies.</li></ul>
<b>Two</b>	<ul style="list-style-type: none"><li>• Geological and geophysical studies.</li></ul>
<b>Three</b>	<ul style="list-style-type: none"><li>• Geological and geophysical studies.</li></ul>
<b>Four</b>	<ul style="list-style-type: none"><li>• Geological and geophysical studies.</li></ul>
<b>Five</b>	<ul style="list-style-type: none"><li>• Drill one well.</li></ul>

Dated: 15 October 2012



**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**

## PETROLEUM AND GEOTHERMAL ENERGY ACT 2000

*Grant of Geothermal Exploration Licence—GEL 557*

NOTICE is hereby given that the undermentioned Geothermal Exploration Licence has been granted with effect from and including 29 June 2010, under the provisions of the Petroleum and Geothermal Energy Act 2000, pursuant to delegated powers dated 1 October 2009.

No. of Licence	Licensee	Locality	Date of Expiry	Reference
GEL 557	Green Rock Energy Limited	Olympic Dam	28/06/2015	F2010/000241

*Description of Area—GEL 557*

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

Commencing at a point being the intersection of longitude 137°01'00"E GDA94 and latitude 30°26'00"S GDA94, thence south to latitude 30°28'00"S GDA94, east to longitude 137°02'42"E GDA94, south to latitude 30°35'00"S GDA94, east to longitude 137°10'00"E GDA94, south to latitude 30°37'00"S GDA94, east to longitude 137°12'24"E GDA94, south to latitude 30°41'30"S GDA94, west to longitude 137°04'00"E GDA94, north to latitude 30°38'00"S GDA94, west to longitude 136°59'00"E GDA94, north to latitude 30°30'45"S GDA94, west to longitude 136°58'00"S GDA94, north to latitude 30°26'00"S GDA94, and east to the point of commencement.

Area: 294 km<sup>2</sup> approximately.

Dated 29 June 2010.

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

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

**MEMORANDUM**

**GEOHERMAL EXPLORATION LICENCE**  
**GEL 557**

1. This Licence granted to Green Rock Energy Limited on 29 June 2010 is hereby entered on the public register.
2. Interests in the licence are:-  

Green Rock Energy Limited	100%
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3. Notation of receipt of security 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: 29 June 2010

Ref: F2010/000241

# PETROLEUM AND GEOTHERMAL ENERGY ACT 2000

## GEOTHERMAL EXPLORATION LICENCE

### GEL 557

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 Rock Energy Limited  
ACN 094 551 336

(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 for a period of five years and to expire on 28 June 2015 but carrying the right of renewal under the *Petroleum and Geothermal Energy Act 2000*.

#### DESCRIPTION OF AREA

6M-  
29/6/09

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:-

Year of Term of Licence	Minimum Work Requirements
One	<ul style="list-style-type: none"><li>• Geological and geophysical studies.</li></ul>
Two	<ul style="list-style-type: none"><li>• Shallow drilling and radon/temperature survey</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 well</li></ul>



2. The Licensee 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 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).
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 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.
6. The Licensee 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 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.
8. 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 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 Licensee 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 Licensee on any cash Security.

9.3 All charges incurred by the Licensee in obtaining and maintaining the Security, shall be met by the Licensee.

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 Licensee.

Date: 29 June 2010



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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**

Signed by the said LICENSEE

Date: 17 JUNE 2010

  
.....  
Authorised Representative

NIGEL HODDER  
.....  
Name

COMPANY SECRETARY  
.....  
Position

GREEN ROCK ENERGY LIMITED  
.....  
Company

# GEOTHERMAL EXPLORATION LICENCE

**GEL 557**

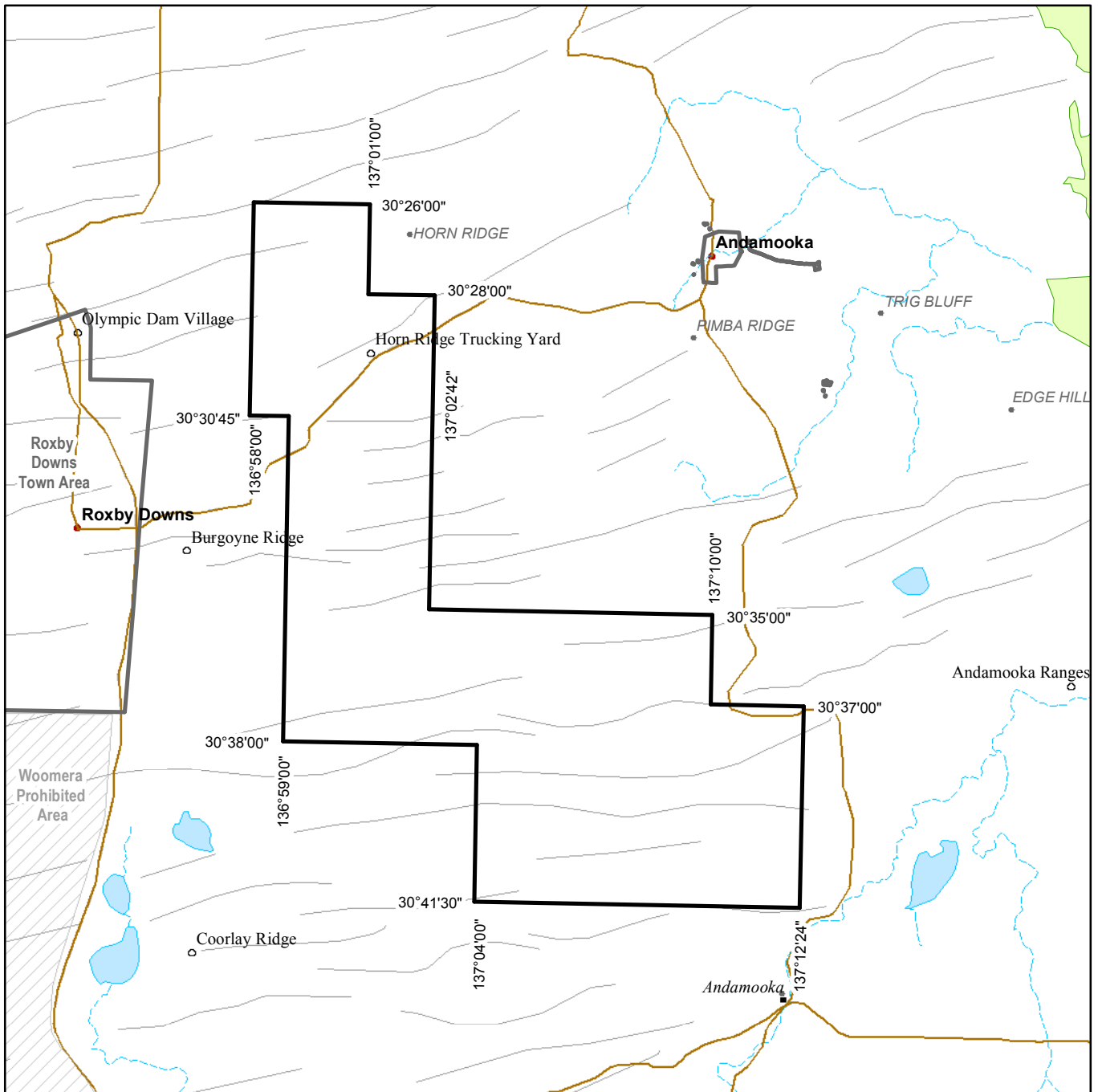
## THE SCHEDULE

### Description of Area

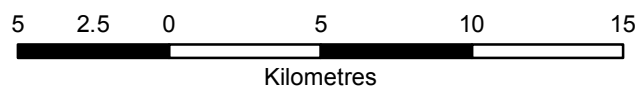
All that part of the State of South Australia, bounded as follows:-

Commencing at a point being the intersection of longitude 137°01'00"E GDA94 and latitude 30°26'00"S GDA94,  
thence south to latitude 30°28'00"S GDA94,  
east to longitude 137°02'42"E GDA94, south to latitude 30°35'00"S GDA94,  
east to longitude 137°10'00"E GDA94, south to latitude 30°37'00"S GDA94,  
east to longitude 137°12'24"E GDA94, south to latitude 30°41'30"S GDA94,  
west to longitude 137°04'00"E GDA94, north to latitude 30°38'00"S GDA94,  
west to longitude 136°59'00"E GDA94, north to latitude 30°30'45"S GDA94,  
west to longitude 136°58'00"S GDA94, north to latitude 30°26'00"S GDA94,  
and east to the point of commencement.

AREA: **294** 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: 557**



Government of South Australia  
Primary Industries and Resources SA

F2010/000241

AREA: 294 sq km (approx)