INDEX OF DOCUMENTS HELD ON THE PETROLEUM REGISTER FOR ASSOCIATED ACTIVITIES LICENCE AAL 233

1. 5 November 2015  
   Grant of Associated Activities Licence AAL 233.
   
   Interests in the licence are:-
   
   Santos Ltd  40.70%
   Vamgas Pty Ltd  8.51%
   Santos (NARNL Cooper) Pty Ltd  4.75%
   Bridge Oil Developments Pty Ltd  3.99%
   Alliance Petroleum Australia Pty Ltd  3.97%
   Basin Oil Pty Ltd  2.10%
   Reef Oil Pty Ltd  1.97%
   Santos Petroleum Pty Ltd  0.40%
   Santos (BOL) Pty Ltd  0.21%
   Delhi Petroleum Pty Ltd  20.21%
   Origin Energy Resources Limited  13.19%

2. 5 November 2015  
   Memorandum entering grant of licence on the public register.

3. 12 November 2015  
   Gazettal of grant of licence.
**Description of Area**

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

### Area 1

Commencing at a point being the intersection of latitude 27°57′27″S GDA94 and longitude 140°57′07″E GDA94, thence east to the eastern border of the State of South Australia, then south along the border of the said State to latitude 28°02′10″S AGD66, west to longitude 140°59′10″E AGD66, north to latitude 28°00′00″S AGD66, west to longitude 140°58′05″E AGD66, south to latitude 28°00′40″S AGD66, west to longitude 140°57′50″E AGD66, south to latitude 28°01′00″S AGD66, west to longitude 140°57′20″E AGD66, south to latitude 28°01′30″S AGD66, west to longitude 140°57′07″E AGD66, thence south to latitude 28°00′40″S GDA94, west to longitude 140°57′50″E GDA94, south to latitude 28°01′00″S GDA94, west to longitude 140°57′20″E GDA94, south to latitude 28°01′30″S GDA94, west to longitude 140°57′07″E GDA94.

### Area 2

Commencing at a point being the intersection of the eastern border of the State of South Australia and latitude 28°09′00″S Clarke1858, thence south along the border of the said State to latitude 28°15′30″S AGD66, west to longitude 140°59′45″E AGD66, thence east to longitude 140°59′10″E AGD66, north to latitude 28°12′00″S AGD66, west to longitude 140°57′10″E AGD66, south to latitude 28°12′40″S AGD66, east to longitude 140°59′20″E AGD66, south to latitude 28°12′00″S GDA94, west to longitude 140°57′10″E GDA94, thence south along the border of the said State to latitude 28°14′20″S GDA94, west to longitude 140°57′07″E GDA94.

### Area 3

Commencing at a point being the intersection of latitude 28°15′10″S AGD66 and longitude 140°57′10″E AGD66, east to longitude 140°57′45″E AGD66, south to latitude 28°17′35″S AGD66, east to longitude 140°57′07″E AGD66, north to latitude 28°16′05″S AGD66, east to longitude 140°57′00″E AGD66.

<table>
<thead>
<tr>
<th>No. of Licence</th>
<th>Licensees</th>
<th>Locality</th>
<th>Reference</th>
</tr>
</thead>
<tbody>
<tr>
<td>AAL 233</td>
<td>Santos Ltd</td>
<td>Cooper Basin</td>
<td>F2015/000530</td>
</tr>
<tr>
<td></td>
<td>Vamgas Pty Ltd</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Origin Energy Resources Limited</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
MEMORANDUM

ASSOCIATED ACTIVITIES LICENCE
AAL 233

1. This Licence granted on 5 November 2015 is hereby entered on the public register.

2. Interests in the licence are:-

<table>
<thead>
<tr>
<th>Company Name</th>
<th>Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>Santos Ltd</td>
<td>40.70%</td>
</tr>
<tr>
<td>Vamgas Pty Ltd</td>
<td>8.51%</td>
</tr>
<tr>
<td>Santos (NARNL Cooper) Pty Ltd</td>
<td>4.75%</td>
</tr>
<tr>
<td>Bridge Oil Developments Pty Ltd</td>
<td>3.99%</td>
</tr>
<tr>
<td>Alliance Petroleum Australia Pty Ltd</td>
<td>3.97%</td>
</tr>
<tr>
<td>Basin Oil Pty Ltd</td>
<td>2.10%</td>
</tr>
<tr>
<td>Reef Oil Pty Ltd</td>
<td>1.97%</td>
</tr>
<tr>
<td>Santos Petroleum Pty Ltd</td>
<td>0.40%</td>
</tr>
<tr>
<td>Santos (BOL) Pty Ltd</td>
<td>0.21%</td>
</tr>
<tr>
<td>Delhi Petroleum Pty Ltd</td>
<td>20.21%</td>
</tr>
<tr>
<td>Origin Energy Resources Limited</td>
<td>13.19%</td>
</tr>
</tbody>
</table>

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

Date: 5 November 2015

File: F2015/000530
Petroleum and Geothermal Energy Act 2000

ASSOCIATED ACTIVITIES LICENCE

AAL 233

I, BARRY ALAN GOLSTEIN, 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:

Santos Ltd ACN 007 550 923
Vamgas Pty Ltd ACN 006 245 110
Alliance Petroleum Australia Pty Ltd ACN 004 559 951
Reef Oil Pty Ltd ACN 000 646 800
Santos Petroleum Pty Ltd ACN 000 146 359
Bridge Oil Developments Pty Ltd ACN 001 152 049
Santos (BOL) Pty Ltd ACN 000 670 575
Basin Oil Pty Ltd ACN 000 628 017
Santos (NARNL Cooper) Pty Ltd ACN 004 761 255
Delhi Petroleum Pty Ltd ACN 007 854 686
Origin Energy Resources Limited ACN 007 845 338

(hereinafter referred to as the Licensee) an Associated Activities Licence as an adjunct to Petroleum Production Licences PPLs 12, 13, 14, 23, 24, 58, 72, 74, 79, 92, 116, 163, 228, 231 and 232 in respect of the area set out below, to have effect from 5 November 2015 and to expire on 4 November 2016 and carrying the right of 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 may carry out or cause to be carried out the Snowball 3D Seismic Survey within the area as defined in the Schedule hereto.

2. Pursuant to Section 74 of the Act the regulated activities to be carried out pursuant to this Licence are classified as requiring low level official surveillance.

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) upon request by the Minister, provide the Minister with a cover note or certificate of currency of the insurance policy referred to in paragraph (a).
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, or the conditions or exclusions of these insurances in respect to how they may or may not respond to any loss, damage or liability.

Date:........November...2015...

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

**Santos Limited** (ACN 007 550 923)  
**Vamgas Pty Ltd** (ACN 006 245 110)  
**Alliance Petroleum Australia Pty Ltd** (ACN 004 559 951)  
**Reef Oil Pty Ltd** (ACN 000 646 800)  
**Santos Petroleum Pty Ltd** (ACN 000 146 369)  
**Bridge Oil Developments Pty Ltd** (ACN 001 152 049)  
**Santos (BOL) Pty Ltd** (ACN 000 670 575)  
**Basin Oil Pty Ltd** (ACN 000 628 017)  
**Santos (NARNL Cooper) Pty Ltd** (ACN 004 761 255)

by its authorised representative:

[Signature of Authorised Representative]

[Print Name of Authorised Representative]

8 Oct 2015

Date

Signed for and on behalf of **Origin Energy Resources Limited** (ACN 007 845 338)  
by its authorised representative:

[Signature of Authorised Representative]

[Print Name of Authorised Representative]

Date

Signed for and on behalf of **Delhi Petroleum Pty Ltd** (ACN 007 854 686)  
in accordance with section 127 of the **Corporations Act 2000 (Cth)**:

[Signature of Director]  
[Signature of Director/Secretary]

[Print Name of Director]  
[Print Name of Director]  
(*delete the inapplicable)

Date
Signed for and on behalf of:

Santos Limited (ACN 007 550 923)
Vamgas Pty Ltd (ACN 006 245 110)
Alliance Petroleum Australia Pty Ltd (ACN 004 559 951)
Reef Oil Pty Ltd (ACN 000 848 800)
Santos Petroleum Pty Ltd (ACN 000 146 369)
Bridge Oil Developments Pty Ltd (ACN 001 152 049)
Santos (BOL) Pty Ltd (ACN 000 670 575)
Basin Oil Pty Ltd (ACN 000 628 017)
Santos (NARNL Cooper) Pty Ltd (ACN 004 761 255)

by its authorised representative:

------------------------------------------
Signature of Authorised Representative

------------------------------------------
[Print Name of Authorised Representative]

------------------------------------------
Date

Signed for and on behalf of Origin Energy Resources Limited (ACN 007 845 338)
by its authorised representative:

------------------------------------------
Signature of Authorised Representative

------------------------------------------
GEORGE MADO
[Print Name of Authorised Representative]

------------------------------------------
Date

16/10/15

Signed for and on behalf of Delhi Petroleum Pty Ltd (ACN 007 854 686)
in accordance with section 127 of the Corporations Act 2001 (Cth):

------------------------------------------
Signature of Director

------------------------------------------
[Print Name of Director]

------------------------------------------
Date

------------------------------------------
Signature of Director/Secretary*

------------------------------------------
[Print Name of Director]
(*delete the inapplicable)
Signed for and on behalf of:

Santos Limited (ACN 007 550 923)
Vangas Pty Ltd (ACN 006 245 110)
Alliance Petroleum Australia Pty Ltd (ACN 004 559 951)
Reef Oil Pty Ltd (ACN 000 646 800)
Santos Petroleum Pty Ltd (ACN 000 146 369)
Bridge Oil Developments Pty Ltd (ACN 001 152 049)
Santos (BOL) Pty Ltd (ACN 000 670 575)
Basin Oil Pty Ltd (ACN 000 628 017)
Santos (NARNL Cooper) Pty Ltd (ACN 004 761 255)

by its authorised representative:

............................................................
Signature of Authorised Representative

............................................................
[Print Name of Authorised Representative]

............................................................
Date

Signed for and on behalf of Origin Energy Resources Limited (ACN 007 845 338)
by its authorised representative:

............................................................
Signature of Authorised Representative

............................................................
[Print Name of Authorised Representative]

............................................................
Date

Signed for and on behalf of Delhi Petroleum Pty Ltd (ACN 007 854 686)
in accordance with section 127 of the Corporations Act 2000 (Cth):

............................................................
Signature of Director
Rod Rayner
Director

............................................................
Signature of Director/Secretary*
Cathy Oeter
Secretary

............................................................
[Print Name of Director]
[Print Name of Director]

............................................................
Date

............................................................
[Print Name of Director]
(*delete the inapplicable)
THE SCHEDULE

ASSOCIATED ACTIVITIES LICENCE

AAL 233

Description of Area

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

Area 1

Commencing at a point being the intersection of latitude 27°57’27”S GDA94 and longitude 140°57’07”E GDA94, thence east to the eastern border of the State of South Australia, then south along the border of the said State to latitude 28°02’10”S AGD66, west to longitude 140°59’10”E AGD66, north to latitude 28°00’00”S AGD66, west to longitude 140°58’05”E GDA94, south to latitude 28°00’40”S GDA94, west to longitude 140°57’50”E GDA94, south to latitude 28°01’00”S GDA94, west to longitude 140°57’20”E GDA94, south to latitude 28°01’50”S GDA94, west to longitude 140°57’07”E GDA94 and north to the point of commencement.

Area 2

Commencing at a point being the intersection of the eastern border of the State of South Australia and latitude 28°09’00”S Clarke1858, thence south along the border of the said State to latitude 28°15’30”S GDA94, west to longitude 140°59’45”E GDA94, north to latitude 28°14’20”S GDA94, west to longitude 140°59’30”E AGD66, north to latitude 28°13’30”S AGD66, west to longitude 140°59’10”E AGD66, north to latitude 28°13’10”S AGD66, west to longitude 140°59’00”E GDA94, north to latitude 28°12’20”S GDA94, west to longitude 140°58’10”E GDA94, north to latitude 28°12’10”S GDA94, west to longitude 140°57’35”E GDA94, north to latitude 28°12’00”S GDA94, west to longitude 140°57’10”E GDA94, south to latitude 28°12’40”S GDA94, east to longitude 140°57’10”E AGD66, south to latitude 28°14’20”S AGD66, west to longitude 140°57’07”E GDA94 north to latitude 28°09’00”S Clarke 1858 and east to the point of commencement.

Area 3

Commencing at a point being the intersection of latitude 28°15’10”S AGD66 and longitude 140°57’10”E AGD66, thence east to longitude 140°57’40”E GDA94, south to latitude 28°15’15”S GDA94, east to longitude 140°57’45”E GDA94, south to latitude 28°15’25”S GDA94, east to longitude 140°57’50”E GDA94, south to latitude 28°16’05”S GDA94, east to longitude 140°58’05”E GDA94, south to latitude 28°16’40”S GDA94, east to longitude 140°58’15”E GDA94,
south to latitude 28°17'35"S GDA94, east to longitude 140°58'25"E GDA94, north to latitude 28°17'40"S GDA94, east to longitude 140°59'40"E GDA94, north to latitude 28°17'35"S GDA94, east to the eastern border of the State of South Australia, then south along the border of the said State to latitude 28°22'00"S Clarke1858, west to longitude 140°59'00"E Clarke1858, north to latitude 28°21'00"S Clarke1858, west to longitude 140°58'30"E AGD66, north to latitude 28°19'20"S AGD66, west to longitude 140°58'20"E AGD66, north to latitude 28°18'20"S AGD66, west to longitude 140°56'35"E AGD66, south to latitude 28°21'00"S Clarke1858, west to longitude 140°56'25"E AGD66, north to latitude 28°20'50"S AGD66, west to longitude 140°55'25"E AGD66, south to latitude 28°21'50"S AGD66, east to longitude 140°55'35"E AGD66, south to latitude 28°22'00"S AGD66, east to longitude 140°56'00"E Clarke1858, south to latitude 28°25'00"S Clarke1858, east to longitude 140°57'00"E Clarke1858, south to latitude 28°26'00"S Clarke1858, east to longitude 140°59'30"E AGD66, south to latitude 28°26'10"S AGD66, east to longitude 140°59'40"E AGD66, south to latitude 28°26'15"S AGD66, east to the eastern border of the State of South Australia, then south along the border of the said State to latitude 28°32'40"S GDA94, west to longitude 140°50'38"E GDA94, north to latitude 28°29'00"S Clarke1858, east to longitude 140°51'00"E Clarke1858, north to latitude 28°26'00"S Clarke1858, east to longitude 140°52'00"E Clarke1858, north to latitude 28°22'48"S GDA94, east to longitude 140°53'36"E GDA94, north to latitude 28°15'31"S GDA94, east to longitude 140°57'07"E GDA94, north to latitude 28°15'20"S AGD66, east to longitude 140°57'10"E AGD66, and north to the point of commencement, but excluding the area bounded as follows -

Commencing at a point being the intersection of latitude 28°17'00"S AGD66 and longitude 140°56'40"E AGD66, thence west to longitude 140°56'35"E AGD66, north to latitude 28°16'50"S AGD66, west to longitude 140°56'30"E AGD66, north to latitude 28°16'25"S AGD66, east to longitude 140°56'35"E AGD66, north to latitude 28°16'15"S AGD66, east to longitude 140°57'00"E AGD66, south to latitude 28°16'20"S AGD66, east to longitude 140°57'05"E AGD66, south to latitude 28°16'25"S AGD66, east to longitude 140°57'10"E AGD66, south to latitude 28°16'35"S AGD66, east to longitude 140°57'15"E AGD66, south to latitude 28°17'10"S AGD66, west to longitude 140°56'40"E AGD66, and north to the point of commencement.

AREA: 301.61 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 HEREBEFORE REFERRED TO

ASSOCIATED ACTIVITIES LICENCE NO: 233

F2015/000530 AREA: 301.61 sq km (approx)