

6. 22 June 1994 Memorandum entering the following document on the public register:
- Deed of Variation of Charge dated 17 May 1994 entered into by Crusader Resources NL and Westpac Banking Corporation.
7. 24 July 1995 Certificate of Registration on Conversion to a Proprietary Company dated 19 January 1995.
From: Vamgas Ltd
To: Vamgas Pty Ltd
8. 24 July 1995 Memorandum entering change of company name on public register
9. 5 September 1995 Certificate of Registration on Change of Name dated 1 September 1995:
From: SAGASCO Resources Ltd
To: Boral Energy Resources Ltd.
10. 5 September 1995 Memorandum entering change of company name on the Public Register
11. 17 February 1997 Memorandum entering the following documents on the public register:
- Deed of Assignment and Transfer dated 20 December 1996 between Santos Ltd (Santos), Delhi Petroleum Pty Ltd (Delhi), Santos Petroleum Pty Ltd (Santos Petroleum), Boral Energy Resources Ltd (Boral), Vamgas Pty Ltd (Vamgas), Bridge Oil Developments Pty Ltd (BOD), Santos (BOL) Pty Ltd (BOL), Reef Oil Pty Ltd (Reef), Alliance Petroleum Australia Pty Ltd (Alliance), Basin Oil NL (Basin) and Crusader Resources NL (Crusader).
 - New JOA Cross Charge dated 20 December 1996 between Santos, Delhi, Santos Petroleum, Boral, Vamgas, Crusader, BOD, BOL, Reef, Alliance and Basin.
 - Deed of Amendment Unit Cross Charge dated 20 December 1996 between Santos, Delhi, Santos Petroleum, Boral, Vamgas, Crusader, BOD, BOL, Reef, Alliance and Basin.
 - Deed of Amendment Downstream Cross Charge dated 20 December 1996 between Santos, Delhi, Santos Petroleum, Boral, Vamgas, Crusader, BOD, BOL, Reef, Alliance and Basin.
12. 30 June 1997 Certificate of Registration on Change of Name dated 12 June 1997:
From: Crusader Resources NL
To: Gulf (Aust) Resources NL
13. 30 June 1997 Memorandum entering change of company name on the Public Register.

14. 10 December 1999 Certificate of Registration on Change of Name dated 6 October 1999:
From: Gulf (Aust) Resources NL
To: Novus Australia Resources NL
15. 10 December 1999 Memorandum entering change of company name on the Public Register.
16. 13 March 2000 Certificate of Registration on Change of Name dated 24 February 2000:
From: Boral Energy Resources
To: Origin Energy Resources Ltd
17. 13 March 2000 Memorandum entering change of company name on the Public Register.
18. 15 October 2002 Certificate of Registration on Change of Type and Conversion to a Proprietary Company dated 8 June 2000:
From: Basin Oil NL
To: Basin Oil Pty Ltd
19. 15 October 2002 Memorandum entering change of company name on the Public Register.
20. 7 May 2004 Memorandum dated 7 May 2004 entering notation of adoption of the register for PELs 5&6 as part of the Commercial Register.
21. 23 July 2004 Memorandum entering notation of registrable dealing on the public register:
 - DPPL Security dated 21 May 2004 between Delhi Petroleum Pty Ltd and Westpac Banking Corporation
Ref:SA 2004-44
22. 23 November 2005 Notation of discharge of security and receipt of replacement security is entered on the public register.
23. 13 January 2006 Certificate of Registration on Change of Name dated 29 June 2005:
From: Novus Australia Resources NL
To: Santos (NARNL Cooper) NL
24. 13 January 2006 Memorandum entering change of company name on the Public Register.
25. 9 May 2006 Certificate of Registration on Change of Name dated 1 December 2005:
From: Santos (NARNL Cooper) NL
To: Santos (NARNL Cooper) Pty Ltd.
26. 9 May 2006 Memorandum entering change of company name on the Public Register

27. 15 February 2011 Memorandum entering notation of the following registrable dealing on the public register.
- Delhi fixed and Floating Charge and Mortgage of JV Assets dated 29 September 2010 between Delhi Petroleum Pty Limited and Westpac Banking Corporation.
Ref: SA 2011-15
28. 28 June 2012 Memorandum entering notation of the following registrable dealing on the public register.
- Royalty Deed dated 19 January 2012 between Delhi Petroleum Pty Ltd and Esso Australia Resources Pty Ltd.
Ref: SA 2012-42
29. 5 November 2015 Memorandum entering notation of the grant of adjunct Associated Activities Licence AAL 233 on the public register.
30. 20 January 2017 Memorandum entering notation of extension of time of the offer to renew licence to 3 February 2017 on the public register.
31. 25 January 2017 Renewal of licence.
- Interests in this licence are:
- | | |
|--------------------------------------|--------|
| Santos Limited | 40.70% |
| Delhi Petroleum Pty Ltd | 20.21% |
| Origin Energy Resources Limited | 13.19% |
| 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% |
- PPL 72 is now due to expire on 31 December 2034.
32. 25 January 2017 Memorandum entering renewal of licence with effect from 1 January 2014 on the public register.
33. 9 August 2017 Certificate of Registration on Change of Company Name dated 29 June 2017.
- From: Origin Energy Resources Limited
To: Lattice Energy Limited
34. 9 August 2017 Memorandum entering notation of change of company name on the public register.

35. 7 June 2018 Memorandum entering notation of the following registrable dealing on the public register:
- Deed of Variation dated 4 December 2015 between Santos Limited, Santos Petroleum Pty Ltd, Vamgas Pty Ltd, Santos (NARNL Cooper) Pty Ltd, Santos (BOL) Pty Ltd, Reef Oil Pty Ltd, Bridge Oil Developments Pty Limited, Basin Oil Pty Ltd, Alliance Petroleum Australia Pty Ltd, Origin Energy Resources Limited and Delhi Petroleum Pty Ltd
Ref: SA 2018-18
36. 22 January 2020 Certificate of Registration on Change of Name dated 2 December 2019.
- From: Lattice Energy Limited
To: Beach Energy (Operations) Limited
37. 22 January 2020 Memorandum entering notation of change of company name on the public register.

Petroleum and Geothermal Energy Act 2000
S.115

MEMORANDUM

PETROLEUM PRODUCTION LICENCES

PPLs 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 22, 23, 24, 25, 26, 27, 29, 30, 31, 32, 33, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 63, 64, 65, 66, 67, 68, 69, 70, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 83, 84, 86, 87, 88, 89, 90, 91, 92, 94, 95, 98, 99, 100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 111, 113, 114, 115, 116, 117, 118, 119, 120, 121, 122, 123, 124, 125, 126, 127, 128, 129, 130, 131, 132, 133, 134, 135, 136, 137, 138, 139, 140, 143, 144, 145, 146, 147, 148, 149, 150, 151, 152, 153, 154, 155, 156, 158, 159, 160, 161, 162, 163, 164, 165, 166, 167, 172, 174, 175, 176, 177, 178, 179, 180, 182, 187, 189, 190, 193, 194, 195, 196, 201, 228, 229, 230, 231, 232, 233, 234, 235, 236, 237 and 238

ASSOCIATED ACTIVITIES LICENCES

AALs 258, 259 and 263

PIPELINE LICENCES

PLs 2, 5, 9, 15 and 20

1. Notation of change of company name:

From: Lattice Energy Limited
To: Beach Energy (Operations) Limited

is hereby entered on the public registers.



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

Date: 22 January 2020



Certificate of Registration on Change of Name

This is to certify that

LATTICE ENERGY LIMITED

Australian Company Number 007 845 338

did on the second day of December 2019 change its name to

BEACH ENERGY (OPERATIONS) LIMITED

Australian Company Number 007 845 338

The company is a public company.

The company is limited by shares.

The company is taken to be registered under the Corporations Act 2001 in South Australia and the date of commencement of registration is the ninth day of September, 1977.

Issued by the
Australian Securities and Investments Commission
on this second day of December 2019.

James Shipton
Chair

CERTIFICATE

Petroleum and Geothermal Energy Act 2000
S.115

MEMORANDUM

PETROLEUM PRODUCTION LICENCES

PPLs 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 22, 23, 24, 25, 26, 27, 29, 30, 31, 32, 33, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 63, 64, 65, 66, 67, 68, 69, 70, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 83, 84, 86, 87, 88, 89, 90, 91, 92, 94, 95, 98, 99, 100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 111, 113, 114, 115, 116, 117, 118, 119, 120, 121, 122, 123, 124, 125, 126, 127, 128, 129, 130, 131, 132, 133, 134, 135, 136, 137, 138, 139, 140, 143, 144, 145, 146, 147, 148, 149, 150, 151, 152, 153, 154, 155, 156, 158, 159, 160, 161, 162, 163, 164, 165, 166, 167, 172, 174, 175, 176, 177, 178, 179, 180, 182, 187, 189, 190, 193, 194, 195, 196, 201, 228, 229, 230, 231, 232, 233, 234, 235, 236, 237 and 238

PIPELINE LICENCES

PLs 5, 9 and 15

SA 2018-18

Notation of registrable dealing as evidenced by Deed of Variation dated 4 December 2015 between Santos Limited, Santos Petroleum Pty Ltd, Vamgas Pty Ltd, Santos (NARNL Cooper) Pty Ltd, Santos (BOL) Pty Ltd, Reef Oil Pty Ltd, Bridge Oil Developments Pty Limited, Basin Oil Pty Ltd, Alliance Petroleum Australia Pty Ltd, Origin Energy Resources Limited and Delhi Petroleum Pty Ltd is hereby entered on the public register.



BARRY A. GOLDSTEIN
Executive Director
Energy Resources Division
Department of the Premier and Cabinet
Delegate of the Minister for Energy and Mining

Date: 7 June 2018

Ref: 28/01/00045

Petroleum and Geothermal Energy Act 2000
S.115

MEMORANDUM

PETROLEUM RETENTION LICENCE
PRL 106

PETROLEUM EXPLORATION LICENCES
PELs 637 and 638

PETROLEUM PRODUCTION LICENCES

PPLs 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 22, 23, 24, 25, 26, 27, 29, 30, 31, 32, 33, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 63, 64, 65, 66, 67, 68, 69, 70, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 83, 84, 86, 87, 88, 89, 90, 91, 92, 94, 95, 98, 99, 100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 111, 113, 114, 115, 116, 117, 118, 119, 120, 121, 122, 123, 124, 125, 126, 127, 128, 129, 130, 131, 132, 133, 134, 135, 136, 137, 138, 139, 140, 143, 144, 145, 146, 147, 148, 149, 150, 151, 152, 153, 154, 155, 156, 158, 159, 160, 161, 162, 163, 164, 165, 166, 167, 172, 174, 175, 176, 177, 178, 179, 180, 182, 187, 189, 190, 193, 194, 195, 196, 201, 228, 229, 230, 231, 232, 233, 234, 235, 236, 237 and 238

PIPELINE LICENCES
PLs 2, 5, 9, 15 and 20

1. Notation of change of company name:

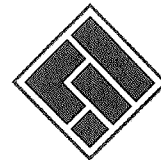
From: Origin Energy Resources Limited
To: Lattice Energy Limited

is hereby entered on the public registers.



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

Date: 9 August 2017



Certificate of Registration on Change of Name

This is to certify that

ORIGIN ENERGY RESOURCES LIMITED

Australian Company Number 007 845 338

did on the twenty-ninth day of June 2017 change its name to

LATTICE ENERGY LIMITED

Australian Company Number 007 845 338

The company is a public company.

The company is limited by shares.

The company is taken to be registered under the Corporations Act 2001 in South Australia and the date of commencement of registration is the ninth day of September, 1977.

Issued by the
Australian Securities and Investments Commission
on this twenty-ninth day of June 2017.

Greg Medcraft
Chairman

CERTIFICATE

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

MEMORANDUM

**RENEWAL OF
PETROLEUM PRODUCTION LICENCES
PPLs 56 and 72**

1. Renewal of these licences effective from 1 January 2014 is hereby entered on the public register.
2. Interests in the licences are:

Santos Limited	40.70%
Delhi Petroleum Pty Ltd	20.21%
Origin Energy Resources Limited	13.19%
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%



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

Date: 25 January 2017

File: 28/1/142
28/1/185

**Petroleum and Geothermal Energy Act 2000
Cooper Basin (Ratification) Act 1975**

**RENEWAL OF
PETROLEUM PRODUCTION LICENCE
PPL 72**

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*, the *Cooper Basin (Ratification) Act 1975* 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 renew Petroleum Production Licence PPL 72, held by:

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
Delhi Petroleum Pty Ltd	ACN 007 854 686
Origin Energy Resources Limited	ACN 007 845 338
Basin Oil Pty Ltd	ACN 000 628 017
Santos (NARNL Cooper) Pty Ltd	ACN 004 761 255

(herein after referred to as the 'Licensee'), and granted pursuant to the *Petroleum Act 1940* in relation to all regulated resources except a source of geothermal energy in respect of the area described below, and subject to the conditions set out below and the provisions of the *Cooper Basin (Ratification) Act 1975* and the *Petroleum and Geothermal Energy Act 2000*. The term of this licence is 21 years commencing on 1 January 2014, and expiring at midnight on 31 December 2034.

DESCRIPTION OF AREA

The land comprised in this Licence is that part of the State of South Australia described in Schedule 1 attached hereto.

TERMS AND CONDITIONS

1. Scope of Rights

For the avoidance of doubt:

- (a) this renewal permits the Licensee to conduct all operations authorised by PPL 72 immediately prior to the commencement of this renewal on 1 January 2014; and
- (b) nothing in this Licence affects the rights of the Licensee pursuant to the *Cooper Basin (Ratification) Act 1975*.

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. Security
 - 3.1 For the purpose of ensuring the due and proper performance of the Licensee's obligations under this Licence and the *Petroleum and Geothermal Energy Act 2000*, the Licensee shall provide security in the amount of \$50,000 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, ("the Security").
 - 3.2 The Security shall be reviewed periodically, and during the term of the Licence if in the opinion of the Minister it is reasonable to increase the Security amount, provide additional security or substitute another security for the existing Security, the Licensee must comply with the Minister's request within 28 days after being requested in writing by the Minister to do so.
 - 3.3 Interest will not be payable by the Minister to the Licensee on any cash Security.
 - 3.4 All charges incurred by the Licensee in obtaining and maintaining the Security shall be met by the Licensee.

If this Licence is surrendered or cancelled and the Minister is satisfied that there are no further obligations under this Licence or the *Petroleum and Geothermal Energy Act 2000*, the Minister will return the Security to the Licensee.

4. Insurance

- 4.1 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 reasonably 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 reasonably 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).

4.2 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. Transfer of Liability

Subject to the *Cooper Basin (Ratification) Act 1975*, 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 Act 1940* or the *Petroleum and Geothermal Energy Act 2000* unless written consent of the Minister is obtained.

6. Sub-Licences

The Minister hereby gives and records his consent to renewal by the Licensee of the Sub-Licences created in respect of the area described in Schedule 1, in the form of or to the effect set out in Schedule 2.

Date: 25 January 2017

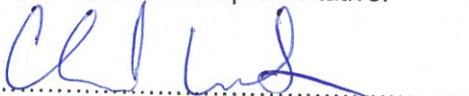


BARRY A. GOLDSTEIN
Executive Director
Energy Resources Division
Department of State Development
Delegate of the Minister for Mineral Resources and Energy

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

Chad Wilson

[Print Name of Authorised Representative]

15-12-16

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 000 646 800)
- 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

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

6/1/17
.....
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 000 646 800)
- 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]

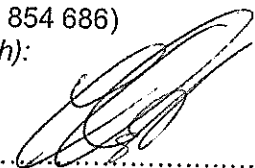
.....
Date

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
.....
[Print Name of Director]

20 | 12 | 16
.....
Date


.....
Signature of Director/Secretary*

CATHY OSTER
COMPANY SECRETARY
.....
[Print Name of Director]
(*delete the inapplicable)

SCHEDULE 1

PETROLEUM PRODUCTION LICENCE

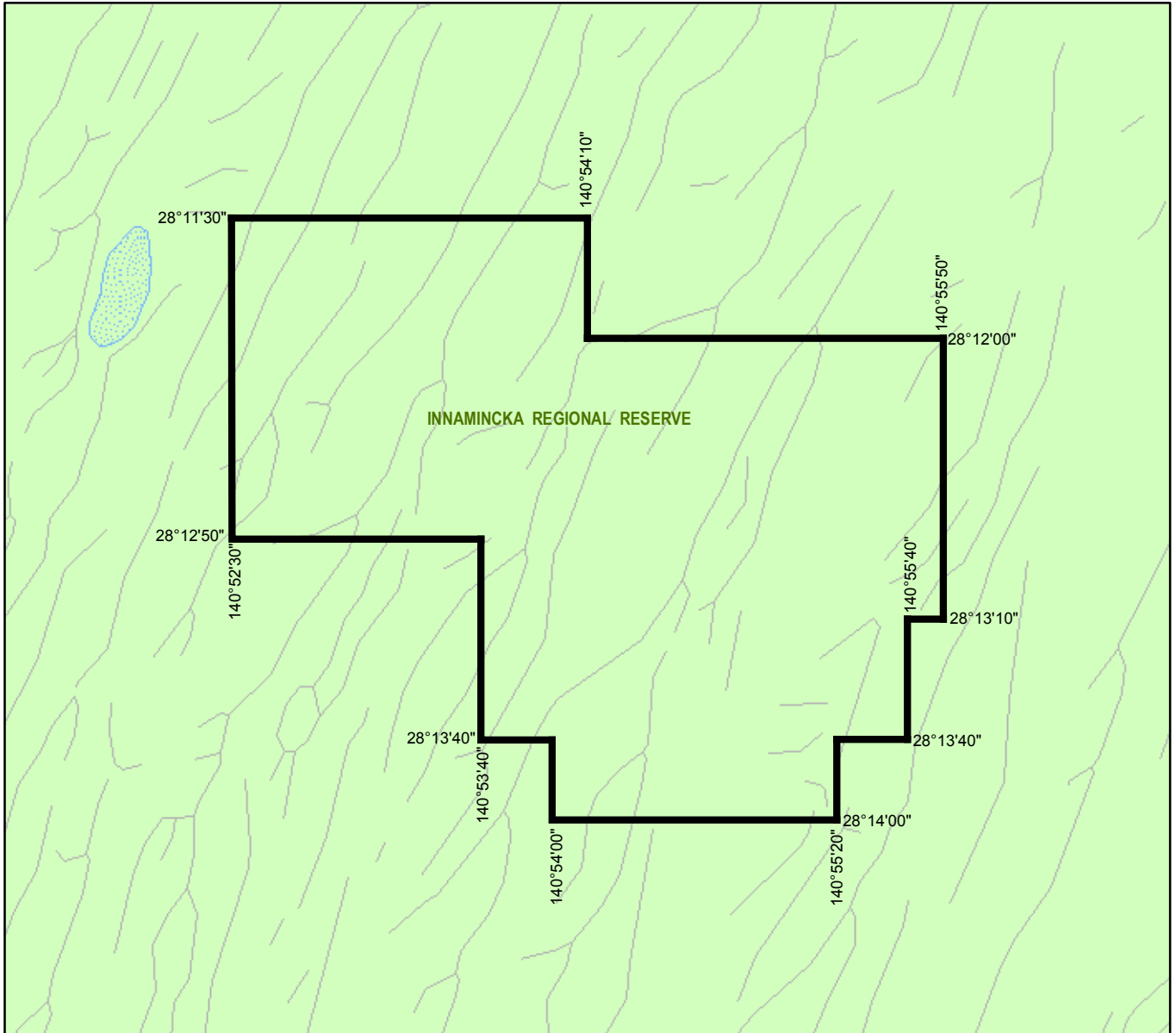
PPL 72

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°11'30"S AGD66 and longitude 140°52'30"E AGD66, thence east to longitude 140°54'10"E AGD66, south to latitude 28°12'00"S AGD66, east to longitude 140°55'50"E AGD66, south to latitude 28°13'10"S AGD66, west to longitude 140°55'40"E AGD66, south to latitude 28°13'40"S AGD66, west to longitude 140°55'20"E AGD66, south to latitude 28°14'00"S AGD66, west to longitude 140°54'00"E AGD66, north to latitude 28°13'40"S AGD66, west to longitude 140°53'40"E AGD66, north to latitude 28°12'50"S AGD66, west to longitude 140°52'30"E AGD66, and north to point of commencement.

AREA: **17.45** square kilometres approximately.



SCALE 1:50 000



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 Australian Geodetic datum (AGD66) and the schedule.

THE PLAN HEREINBEFORE REFERRED TO

PIRA-DILCHEE FIELD

PETROLEUM PRODUCTION LICENCE NO: 72



Government of South Australia
Department of State Development

SR 28/1/185

AREA: 17.45 sq km (approx)

PETROLEUM PRODUCTION LICENCE PPL 72

DEED OF SUB-LICENCE

THIS DEED is made as of 7 March 2017 (date)

BETWEEN:

SANTOS LIMITED (ABN 80 007 550 923) with its registered office at Ground Floor, Santos Centre, 60 Flinders Street, Adelaide in the State of South Australia;

VAMGAS PTY LTD (ABN 76 006 245 110) with its registered office at Ground Floor, Santos Centre, 60 Flinders Street, Adelaide in the State of South Australia;

ALLIANCE PETROLEUM AUSTRALIA PTY LTD (ABN 60 004 559 951) with its registered office at Ground Floor, Santos Centre, 60 Flinders Street, Adelaide in the State of South Australia;

REEF OIL PTY LTD (ABN 70 000 646 800) with its registered office at Ground Floor, Santos Centre, 60 Flinders Street, Adelaide in the State of South Australia;

BRIDGE OIL DEVELOPMENTS PTY LIMITED (ABN 30 001 152 049) with its registered office at Ground Floor, Santos Centre, 60 Flinders Street, Adelaide in the State of South Australia;

SANTOS PETROLEUM PTY LTD (ABN 95 000 146 369) with its registered office at Ground Floor, Santos Centre, 60 Flinders Street, Adelaide in the State of South Australia;

SANTOS (BOL) PTY LTD (ABN 35 000 670 575) with its registered office at Ground Floor, Santos Centre, 60 Flinders Street, Adelaide in the State of South Australia;

BASIN OIL PTY LTD (ABN 36 000 628 017) with its registered office at Ground Floor, Santos Centre, 60 Flinders Street, Adelaide in the State of South Australia;

SANTOS (NARNL COOPER) PTY LTD (ABN 75 004 761 255) with its registered office at Ground Floor, Santos Centre, 60 Flinders Street, Adelaide in the State of South Australia;

DELHI PETROLEUM PTY LTD (ABN 65 007 854 686) with its registered office at 25 Conyngham Street, Glenside in the State of South Australia; and

ORIGIN ENERGY RESOURCES LTD (ABN 66 007 845 338) with its registered office at Level 45, Australia Square, 264-278 George Street, Sydney, New South Wales,

in their capacity as participants in the Toolachee Joint Venture and as holders of PPL 72 (collectively "the Licensors")

OF THE ONE PART

AND

SANTOS LIMITED (ABN 80 007 550 923) with its registered office at Ground Floor, Santos Centre, 60 Flinders Street, Adelaide in the State of South Australia;

VAMGAS PTY LTD (ABN 76 006 245 110) with its registered office at Ground Floor, Santos Centre, 60 Flinders Street, Adelaide in the State of South Australia;

ALLIANCE PETROLEUM AUSTRALIA PTY LTD (ABN 60 004 559 951) with its registered office at Ground Floor, Santos Centre, 60 Flinders Street, Adelaide in the State of South Australia;

REEF OIL PTY LTD (ABN 70 000 646 800) with its registered office at Ground Floor, Santos Centre, 60 Flinders Street, Adelaide in the State of South Australia;

BRIDGE OIL DEVELOPMENTS PTY LIMITED (ABN 30 001 152 049) with its registered office at Ground Floor, Santos Centre, 60 Flinders Street, Adelaide in the State of South Australia;

SANTOS PETROLEUM PTY LTD (ABN 95 000 146 369) with its registered office at Ground Floor, Santos Centre, 60 Flinders Street, Adelaide in the State of South Australia;

SANTOS (BOL) PTY LTD (ABN 35 000 670 575) with its registered office at Ground Floor, Santos Centre, 60 Flinders Street, Adelaide in the State of South Australia;

BASIN OIL PTY LTD (ABN 36 000 628 017) with its registered office at Ground Floor, Santos Centre, 60 Flinders Street, Adelaide in the State of South Australia;

SANTOS (NARNL COOPER) PTY LTD (ABN 75 004 761 255) with its registered office at Ground Floor, Santos Centre, 60 Flinders Street, Adelaide in the State of South Australia;

DELHI PETROLEUM PTY LTD (ABN 65 007 854 686) with its registered office at 25 Conyngham Street, Glenside in the State of South Australia;

ORIGIN ENERGY RESOURCES LTD (ABN 66 007 845 338) with its registered office at Level 45, Australia Square, 264-278 George Street, Sydney, New South Wales

in their capacity as several participants in the joint venture constituted by the SACB Unit Agreement dated 1 January 1975 (as amended) (collectively "the Licensees")

OF THE OTHER PART

WHEREAS

- A. The Licensors are joint holders of Petroleum Production Licence PPL 72 ("the Petroleum Production Licence") granted by the Minister for Mineral Resources and Energy for the State of South Australia by way of renewal of the Petroleum Production Licence granted pursuant to the *Petroleum Act 1940*; and pursuant to the powers in the *Petroleum and Geothermal Energy Act 2000* and the *Cooper Basin (Ratification) Act 1975*, over certain land in the State of South Australia as more particularly described in Schedule 1 of the Petroleum Production Licence.
- B. The Licensees are parties to an agreement made as of the 1st day of January 1975 known as the South Australian Cooper Basin Unit Agreement (hereinafter and as the same may be amended from time to time referred to as "the Unit Agreement") relating inter alia to the development and production of petroleum from that sub-surface portion of the area comprised in the Petroleum Production Licence as the same is more particularly described in the Schedule hereto.

- C. The Licensors have previously granted a sub-licence to the Licensees and in accordance with that sub-licence on renewal of the Petroleum Production Licence are required to grant a renewal of the sub-licence to the Licensees.
- D. The Licensors, with the consent of the Minister for Mineral Resources and Energy of the State of South Australia, have agreed to grant, and the Licensees have agreed to accept, renewal of a sub-licence to exercise the rights specified in Clause 1 of this Deed upon the conditions specified in Clauses 2, 3, 4 and 5 of this Deed.

NOW THIS DEED WITNESSES as follows:

1. The Licensors, with the consent of the Minister for Mineral Resources and Energy of the State of South Australia hereby grant to each of the Licensees severally the exclusive right commencing and inclusive from 1 January 2014 (date) for the duration of the Petroleum Production Licence, subject to the provisions of this Deed of Sub-licence to:-
- (a) conduct in such portion of the area comprised in the Petroleum Production Licence as is more particularly described in the Schedule hereto (herein after referred to as "the Unitized Zone") all such operations as the Licensors are entitled to conduct thereon from time to time pursuant to the Petroleum Production Licence and subject to Clause 2 hereof to own all petroleum extracted or released therefrom; and
 - (b) construct and maintain upon the land comprised in the Petroleum Production Licence all such facilities as the Licensors are entitled to construct and maintain thereon pursuant to the Petroleum Production Licence or the *Cooper Basin (Ratification) Act 1975* of the State of South Australia (or both) and as are necessary from time to time for the full enjoyment of the rights granted pursuant to Clause 1(a) hereof.
2. Each of the Licensees hereby expressly acknowledges, covenants and agrees with the Licensors and with each of the other Licensees that in the exercise of exclusive rights granted pursuant to Clause 1 hereof each Licensee shall at all times act subject to and in accordance with the provisions of the Unit Agreement (and in particular to the provisions of Clause 13.01 thereof which refers to an overriding royalty in favour of Santos) and that all such rights shall entitle each Licensee to extract or release from the Unitized Zone so much of the petroleum within the Unitized Zone as such Licensee is entitled to from time to time in accordance with the provisions of the Unit Agreement and the Fixed Factor Settlement Agreement made between the Licensees on 5 December 1996.
3. The Licensees hereby jointly and severally covenant with the Licensors that they will make payment in accordance with the Unit Agreement of the royalty referred to in the *Cooper Basin (Ratification) Act 1975* in respect of the production referred to in Clause 2 hereof and will subject as aforesaid comply with the provisions of the *Petroleum and Geothermal Energy Act 2000* and the *Cooper Basin (Ratification) Act 1975* and amendments thereto and with all Regulations for the time being in force under those Acts and with any directions given by the Minister, the Executive Director of Energy Resources Division or any other person pursuant to those Acts or Regulations and the Licensees hereby further jointly and severally covenant with the Licensors not to do any act or thing or make any omission which would cause the Licensors to be in breach or default of the provisions of the Petroleum Production Licence or of the provisions of the *Petroleum and Geothermal Energy Act 2000* or the *Cooper Basin (Ratification) Act 1975* and amendments thereto, or of any Regulation for the time being in force under those Acts or with any direction given by the Minister, the Executive Director of the Energy Resources Division of the Department of State Development or any other person pursuant to those Acts or Regulations.

4. Subject to the due compliance by the Licensees with their obligations under this Deed of Sub-Licence the Licensors hereby covenant with the Licensees to perform the covenants and obligations on the part of the Licensors contained in the Petroleum Production Licence.
5. The rights of the Licensees or any of them granted pursuant to the foregoing provisions of this Deed of Sub-Licence shall not be sold, assigned, transferred, leased, sub-let, mortgaged, pledged, charged, encumbered or otherwise disposed of other than subject to and in accordance with the provisions of Article XV of the Unit Agreement and subject to the *Petroleum and Geothermal Energy Act 2000* and Clause 14.2 of the Indenture annexed to the *Cooper Basin (Ratification) Act 1975*.

THE SCHEDULE

DEED OF SUB-LICENCE

(Description of Unitized Zones)

PPL 72

PIRA AND DILCHEE FIELDS

The stratigraphic unit named as the Pira Field, Toolachee Formation in the First Schedule to the Unit Agreement and being as more particularly described therein together with all lateral extensions to such stratigraphic unit as may from time to time become subject to the Unit Agreement and which underlie the area described in the said Petroleum Production Licence.

The stratigraphic unit named as the Dilchee Field, Unit "P1" Patchawarra Formation in the First Schedule to the Unit Agreement and being as more particularly described therein together with all lateral extensions to such stratigraphic unit as may from time to time become subject to the Unit Agreement and which underlie the area described in the said Petroleum Production Licence.

The stratigraphic unit named as the Pira Field, Unit "P1" Patchawarra Formation in the First Schedule to the Unit Agreement and being as more particularly described therein together with all lateral extensions to such stratigraphic unit as may from time to time become subject to the Unit Agreement and which underlie the area described in the said Petroleum Production Licence. The stratigraphic unit named as the Dilchee Field, Unit "P2" Patchawarra Formation in the First Schedule to the Unit Agreement and being as more particularly described therein together with all lateral extensions to such stratigraphic unit as may from time to time become subject to the Unit Agreement and which underlie the area described in the said Petroleum Production Licence.

The stratigraphic unit named as the Pira Field, Unit "P2" Patchawarra Formation in the First Schedule to the Unit Agreement and being as more particularly described therein together with all lateral extensions to such stratigraphic unit as may from time to time become subject to the Unit Agreement and which underlie the area described in the said Petroleum Production Licence.

The stratigraphic unit named as the Pira Field, Daralingie Formation in the First Schedule to the Unit Agreement and being as more particularly described therein together with all lateral extensions to such stratigraphic unit as may from time to time become subject to the Unit Agreement and which underlie the area described in the said Petroleum Production Licence.

Such additional stratigraphic units as have become or may from time to time become subject to the Unit Agreement and which underlie the area described in the said Petroleum Production Licence together with all lateral extensions to those stratigraphic units.

IN WITNESS WHEREOF the Parties hereto sign, seal and deliver the foregoing presents and have hereunto set their respective hands and seals as of 7 March 2017 (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 000 646 800)
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~~: duly appointed Attorney in the presence of:

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

Attorney

David Lim

.....
[Print Name of ~~Authorised Representative~~

Attorney

Laura Starling

.....
Print Witness Name

[Signature]

.....
Witness Signature

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]

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)

IN WITNESS WHEREOF the Parties hereto sign, seal and deliver the foregoing presents and have hereunto set their respective hands and seals as of 7 March 2017 (Date).

Signed for and on behalf of:

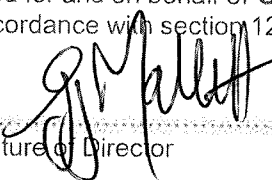
Santos Limited (ACN 007 550 923)
Vargas Pty Ltd (ACN 006 245 110)
Alliance Petroleum Australia Pty Ltd (ACN 004 559 951)
Reef Oil Pty Ltd (ACN 000 646 800)
Santos Petroleum Pty Ltd (ACN 000 146 369)
Bridge Oil Developments Pty Ltd (ACN 001 152 049)
Santos (BOL) Pty Ltd (ACN 000 670 575)
Basin Oil Pty 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]

Signed for and on behalf of **Origin Energy Resources Limited** (ACN 007 845 338) in accordance with section 127 of the *Corporations Act 2000 (Cth)*.


.....
Signature of Director

GARY J. MALLETT

.....
[Print Name of Director]


.....
Signature of Secretary

HELEN HARDY

.....
[Name of Secretary]

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

.....
[Print Name of Director]

.....
Signature of Director/Secretary*

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

IN WITNESS WHEREOF the Parties hereto sign, seal and deliver the foregoing presents and have hereunto set their respective hands and seals as of 7 March 2017 (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 000 646 800)
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]

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]

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

Matt Kay
Director

.....
[Print Name of Director]

.....
Signature of Director/Secretary*

CATHY OSTER
COMPANY SECRETARY

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

Petroleum and Geothermal Energy Act 2000
S.134

MEMORANDUM

PETROLEUM PRODUCTION LICENCES
PPLs 41, 51, 55, 56, 60, 61, 63, 64, 65, 66, 67, 68, 69,
70, 72, 73, 74, 75, 76, 77, 78, 79, 80 and 83

1. Notation of an extension of time to 3 February 2017 by which the licensees must accept the offer for renewal of Petroleum Production Licences PPLs 41, 51, 55, 56, 60, 61, 63, 64, 65, 66, 67, 68, 69, 70, 72, 73, 74, 75, 76, 77, 78, 79, 80 and 83 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: 20 January 2017

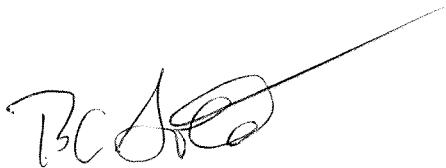
File: Various

Petroleum and Geothermal Energy Act 2000
S.115

MEMORANDUM

PETROLEUM PRODUCTION LICENCES
PPLs 12, 13, 14, 23, 24, 58, 72, 74, 79, 92, 116, 163, 228, 231
and 232

1. Notation of the Grant of Associated Activities Licence AAL 233 (adjunct to PPLs 12, 13, 14, 23, 24, 58, 72, 74, 79, 92, 116, 163, 228, 231 and 232 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: 5 November 2015

File: F2015/000530

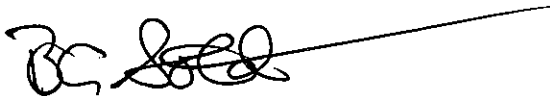
**Petroleum and Geothermal Energy Act 2000
S.115**

MEMORANDUM

PETROLEUM PRODUCTION LICENCES

PPLs 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 22, 23, 24, 25, 26, 27, 29, 30, 31, 32, 33, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 63, 64, 65, 66, 67, 68, 69, 70, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 83, 84, 86, 87, 88, 89, 90, 91, 92, 94, 95, 98, 99, 100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 111, 113, 114, 115, 116, 117, 118, 119, 120, 121, 122, 123, 124, 125, 126, 127, 128, 129, 130, 131, 132, 133, 134, 135, 136, 137, 138, 139, 140, 143, 144, 145, 146, 147, 148, 149, 150, 151, 152, 153, 154, 155, 156, 158, 159, 160, 161, 162, 163, 164, 165, 166, 167, 172, 174, 175, 176, 177, 178, 179, 180, 182, 187, 189, 190, 193, 194, 195, 196, 201, 228, 229, 230, 231, 232, 233, 234, 235, 236, 237 and 238

SA 2012-42 Notation of registrable dealing as evidenced by Royalty Deed dated 19 January 2012 between Delhi Petroleum Pty Ltd and Esso Australia Resources Pty Ltd 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: 28 June 2012

Ref: various files

Petroleum and Geothermal Energy Act 2000
S.115

MEMORANDUM

PETROLEUM PRODUCTION LICENCES

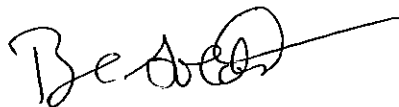
PPLs 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 22, 23, 24, 25, 26, 27, 29, 30, 31, 32, 33, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 63, 64, 65, 66, 67, 68, 69, 70, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 83, 84, 86, 87, 88, 89, 90, 91, 92, 94, 95, 98, 99, 100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 111, 113, 114, 115, 116, 117, 118, 119, 120, 121, 122, 123, 124, 125, 126, 127, 128, 129, 130, 131, 132, 133, 134, 135, 136, 137, 138, 139, 140, 143, 144, 145, 146, 147, 148, 149, 150, 151, 152, 153, 154, 155, 156, 158, 159, 160, 161, 162, 163, 164, 165, 166, 167, 172, 174, 175, 176, 177, 178, 179, 180, 182, 187, 189, 190, 193, 194, 195, 196, 201, 228, 229, 230, 231, 232, 233, 234, 235, 236, 237 and 238

and

PIPELINE LICENCES

PLs 2, 5, 9 and 15

SA 2011-15 Notation of registrable dealing as evidenced by Delhi Fixed and Floating Charge and Mortgage of JV Assets dated 29 September 2010 between Delhi Petroleum Pty Limited and Westpac Banking Corporation 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 February 2011

Petroleum Act 2000
S.115

MEMORANDUM

Petroleum Production Licences (PPLs) 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 111, 112, 113, 114, 115, 116, 117, 118, 119, 120, 121, 122, 123, 124, 125, 126, 127, 128, 129, 130, 131, 132, 133, 134, 135, 136, 137, 138, 139, 140, 141, 142, 143, 144, 145, 146, 147, 148, 149, 150, 151, 152, 153, 154, 155, 156, 157, 158, 159, 160, 161, 162, 163, 164, 165, 166, 167, 169, 170, 171, 172, 173, 174, 175, 176, 177, 178, 179, 180, 181, 182, 183, 184, 185, 186, 187, 188, 189, 190, 191, 192, 193, 194, 195, 196, 197, 198, 199 and Pipeline Licence (PL) 2.

1. Notation of change of company name –

From: Santos (NARNL Cooper) NL
To: Santos (NARNL Cooper) Pty Ltd

is hereby entered on the public register of licences.



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: 9 May 2006

File: 27/2/4

General Counsel
06 DEC 2005
Legal Services/
Group Secretariat

Form 242

Santos Limited Attn: Graham Bollenhagen
GPO Box 2455
Adelaide SA 5001

Remove this top section if desired before framing

Certificate of Registration on Change of Type and Conversion to a Proprietary Company



This is to certify that

SANTOS (NARNL COOPER) NL

Australian Company Number 004 761 255

on the first day of December 2005 converted to
a **company limited by shares**
and on the first day of December 2005 changed to
a **proprietary** company.

The name of the company is now

SANTOS (NARNL COOPER) PTY LTD

Australian Company Number 004 761 255

The company is taken to be registered under the Corporations
Act 2001 in Victoria and the date of commencement of
registration is the twenty-first day of February, 1969.

Issued by the
Australian Securities and Investments Commission
on this first day of December, 2005.

Jeffrey Lucy
Chairman

CERTIFICATE

Petroleum Act 2000
S.115

MEMORANDUM

Petroleum Production Licences (PPLs) 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 111, 112, 113, 114, 115, 116, 117, 118, 119, 120, 121, 122, 123, 124, 125, 126, 127, 128, 129, 130, 131, 132, 133, 134, 135, 136, 137, 138, 139, 140, 141, 142, 143, 144, 145, 146, 147, 148, 149, 150, 151, 152, 153, 154, 155, 156, 157, 158, 159, 160, 161, 162, 163, 164, 165, 166, 167, 169, 170, 171, 172, 173, 174, 175, 176, 177, 178, 179, 180, 181, 182, 183, 184, 185, 186, 187, 188, 189, 190, 191, 192, 193, 194, 195, 196, 197, 198, 199 and Pipeline Licence (PL) 2.

1. Notation of change of company name –

From: Novus Australia Resources NL
To: Santos (NARNL Cooper) NL

is hereby entered on the public register of licences.



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

Date: 13 January 2006

File: 27/2/4

Santos Limited Attn: Graham Bollenhagen
GPO Box 2455
Adelaide SA 5001

Remove this top section if desired before framing

Certificate of Registration on Change of Name



This is to certify that

NOVUS AUSTRALIA RESOURCES NL

Australian Company Number 004 761 255

did on the twenty-ninth day of June 2005 change its name to

SANTOS (NARNL COOPER) NL

Australian Company Number 004 761 255

The company is a public company.

The company is a no liability company.

The company is taken to be registered under the Corporations Act 2001 in Victoria and the date of commencement of registration is the twenty-first day of February, 1969.

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

Jeffrey Lucy
Chairman

CERTIFICATE

Petroleum Act 2000
S.115

MEMORANDUM

PETROLEUM PRODUCTION LICENCES (PPLs) 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 111, 113, 114, 115, 116, 117, 118, 119, 120, 121, 122, 123, 124, 125, 126, 127, 128, 129, 130, 131, 132, 133, 134, 135, 136, 137, 138, 139, 140, 141, 142, 143, 144, 145, 146, 147, 148, 149, 150, 151, 152, 153, 154, 155, 156, 157, 158, 159, 160, 161, 162, 163, 164, 165, 166, 167, 169, 170, 171, 172, 173, 174, 175, 176, 177, 178, 179, 180, 181, 182, 183, 184, 185, 186, 187, 188, 189, 190, 191, 192, 193, 194, 195, 196, 197, 198, 199

and

PIPELINE LICENCES (PLs) 2, 5, 9 and 15

1. Notation of receipt of Bank Guarantee dated 27 October 2005, is hereby entered on the commercial register.
2. Security is held to cover any event occurring in any licence operated by Santos Limited on behalf of the respective Cooper Basin Joint Ventures in South Australia.
3. Cash security held in respect of PPL 152 is hereby discharged to Santos Limited.
4. Bank Guarantees held in respect of the above referenced PLs and PPLs (excluding PPL 152) are hereby discharged to Santos Limited.



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

Date: 23 November 2005

Petroleum Act 2000

S.115

MEMORANDUM

PETROLEUM PRODUCTION LICENCES 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 111, 113, 114, 115, 116, 117, 118, 119, 120, 121, 122, 123, 124, 125, 126, 127, 128, 129, 130, 131, 132, 133, 134, 135, 136, 137, 138, 139, 140, 141, 142, 143, 144, 145, 146, 147, 148, 149, 150, 151, 152, 153, 154, 155, 156, 157, 158, 159, 160, 161, 162, 163, 164, 165, 166, 167, 169, 170, 171, 172, 173, 174, 175, 176, 177, 178, 179, 180, 181, 182, 183, 184, 185, 186, 187, 188, 189, 190, 191, 192, 193, 194, 195, 196, 197, 198, 199

PIPELINE LICENCES 2, 5, 9 AND 15

1. Notation of registrable dealing as evidenced by the following document is hereby entered on the Public Register;

- SA 2004-44 DPPL Security dated 21 May 2004 between Delhi Petroleum Pty Ltd and Westpac Banking Corporation.



Paul Holloway

Leader of the Government in the Legislative Council
Minister for Industry, Trade and Regional Development
Minister for Mineral Resources Development
Minister for Small Business

Date: 23/7/04

Petroleum Act 2000

S.115(2)(e)

S.117(2)(b)

MEMORANDUM

PETROLEUM PRODUCTION LICENCES (PPLs) 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 111, 112, 113, 114, 115, 116, 117, 118, 119, 120, 121, 122, 123, 124, 125, 126, 127, 128, 129, 130, 131, 132, 133, 134, 135, 136, 137, 138, 139, 140, 141, 142, 143, 144, 145, 146, 147, 148, 149, 150, 151, 152, 153, 154, 155, 156, 157, 158, 159, 160, 161, 162, 163, 164, 165, 166, 167, 169, 170, 171, 172, 173, 174, 175, 176, 177, 178, 179, 180, 181, 182, 183, 184, 185, 186, 187, 188, 189, 190, 191, 192, 193, 194, 195, 196, 197, 198 and 199

- 1 Pursuant to sections 115(2)(e) and 117(2)(b) of the *Petroleum Act 2000*, notation is hereby entered on the public and commercial register for each of the abovementioned PPLs, that the register created under the then *Petroleum Act 1940*, relative to Petroleum Exploration Licences 5 and 6, which expired on 27 February 1999, is adopted as part of the commercial register for each of the above said PPLs

Dated: 7 May 2004



T. AUST
A/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

PETROLEUM PRODUCTION LICENCES

PPL's 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 22, 23, 24, 25, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 111, 112, 113, 114, 115, 116, 117, 119, 120, 124, 126, 127, 128, 129, 130, 132, 133, 134, 135, 137, 138, 139, 140, 141, 143, 144, 145, 146, 148, 149, 150, 151, 153, 154, 155, 157, 159, 160, 161, 162, 163, 164, 165, 166, 169, 170, 171, 172, 173, 174, 175, 176, 177, 178, 179, 180, 181, 183, 184, 185, 186, 188, 189, 190, 192, 193, 195, 196, 198, 199;

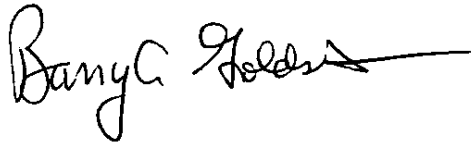
And

**PIPELINE LICENCE
PL 2**

1. Notation of change of company name –

From: Basin Oil NL
To: Basin Oil Pty Ltd

is hereby entered on the public register of licences.



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

Date: 15 October 2002

Form 242

FREEHILL HOLLINGDALE & PAGE
AMP BUILDING
22nd Fl
140 ST Georges Terrace
PERTH WA 6000

Remove this top section if desired before framing

Certificate of Registration on Change of Type and Conversion to a Proprietary Company



This is to certify that

BASIN OIL N.L.

Australian Company Number 000 628 017

on the eighth day of June 2000 converted to
a company limited by shares
and on the eighth day of June 2000 changed
to a proprietary company.

The name of the company is now

BASIN OIL PTY LTD

Australian Company Number 000 628 017

The company is taken to be registered as a company
under the Corporations Law of New South Wales.

CERTIFICATE

Issued by the
Australian Securities and Investments Commission
on this eighth day of June, 2000.

Alan Cameron
Chairman

MEMORANDUM

PETROLEUM ACT 1940

SECTION 44

PETROLEUM EXPLORATION LICENCES NOS. 27, 32, 57, 66 AND 72
PETROLEUM PRODUCTION LICENCES NOS. 6 TO 20, 22 TO 61 AND 63 TO 168
PIPELINE LICENCES 2, 5, 9 AND 10

Receipt of the following document is hereby entered onto the Petroleum Register.

- Certificate of Registration on Change of Name dated 24 February 2000.
Boral Energy Resources Ltd is now known as Origin Energy Resources Ltd.



J S ZABROWARNY
MANAGER PETROLEUM LICENSING AND ROYALTIES

13 March 2000

User: MARKK
Host: BETA1.oce.boral.com.au
Class: Job: MARKK_TRLRP

502 0139 002

CLAYTON UTZ
1 O'Connell Street
SYDNEY NSW 2000

Remove this top section if desired before printing

Certificate of Registration on Change of Name

This is to certify that

BORAL ENERGY RESOURCES LIMITED

Australian Company Number 007 845 338

did on the twenty-fourth day of February 2000 change its name to

ORIGIN ENERGY RESOURCES LIMITED

Australian Company Number 007 845 338

The company is a public company.

The company is limited by shares.

The company is taken to be registered as a company
under the Corporations Law of South Australia.

Issued by the
Australian Securities and Investments Commission
on this twenty-fourth day of February, 2000.



Alan Cameron
Chairman



CERTIFICATE

MEMORANDUM

Section 44, Petroleum Act 1940

PETROLEUM PRODUCTION LICENCES 6 to 20,
22 to 61, 63 to 140, 142 to 167

PIPELINE LICENCE No. 2

Receipt of the following document is hereby entered onto the Petroleum Register.

- Certificate of Registration on Change of Name dated 6 October 1999.
Gulf (Aust) Resources NL is now known as Novus Australia Resources NL.



J S Zabrowarny
Manager, Petroleum Licensing and Royalties

10 December 1999



NOVUS PETROLEUM LIMITED
Level 9
321 Kent Street
SYDNEY NSW 2000

Remove this top section if desired before framing

Certificate of Registration on Change of Name



This is to certify that

GULF (AUST) RESOURCES N.L.

Australian Company Number 004 761 255

did on the sixth day of October 1999 change its name to

NOVUS AUSTRALIA RESOURCES NL

Australian Company Number 004 761 255

The company is a public company.

The company is a no liability company.

The company is taken to be registered as a company
under the Corporations Law of Victoria.

CERTIFICATE

Issued by the
Australian Securities and Investments Commission
on this sixth day of October, 1999.

Alan Cameron

PPL 72/9



SR 27/2/4 V27

MEMORANDUM

PETROLEUM ACT 1940 SECTION 44

PEL 5 & 6

All Farmout Areas

PPLs 6 to 20, 22 to 61 and 63 to 84, PL 2

Receipt of the following document is hereby entered onto the Petroleum Register:

- Certificate of Registration on Change of Name dated 12 June 1997.

Crusader Resources NL is now known as Gulf (Aust) Resources NL.

M COLELLA
A/MANAGER, PETROLEUM ADMINISTRATION

30 / 6 197



Form **245**

CORRS CHAMBERS WESTGARTH
ATTN: TRACY THORNTON
COMALCO PLACE
12 CREEK ST
BRISBANE QLD 4000

Remove this top section if desired before filing

Certificate of Registration on Change of Name

Corporations Law Sub-section 171 (12)

This is to certify that

CRUSADER RESOURCES N.L.

Australian Company Number 004 761 255

did on the twelfth day of June 1997 change its name to

GULF (AUST) RESOURCES N.L.

Australian Company Number 004 761 255

The company is a public company.

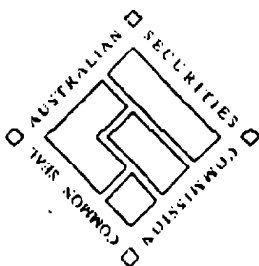
The company is a no liability company.

The company is taken to be registered as a company
under the Corporations Law of Victoria.



AUSTRALIAN
SECURITIES
COMMISSION

Given under the seal of the
Australian Securities Commission
on this twelfth day of June, 1997.



Alan Cameron
Chairman

MEMORANDUM



PETROLEUM EXPLORATION LICENCE NO 5 & 6

FARMOUT AREAS AND PETROLEUM PRODUCTION LICENCES

This memorandum will confirm that on 17 February 1997 I approved the lodgement of the following documents onto the Petroleum Register which confirms the approved provisions as contained in the Minister for Mines' letter dated 20 December 1996.

- Deed of Assignment and Transfer dated 20 December 1996 between Santos Ltd (Santos), Delhi Petroleum Pty Ltd (Delhi), Santos Petroleum Pty Ltd (Santos Petroleum), Boral Energy Resources Ltd (Boral), Vamgas Pty Ltd (Vamgas), Bridge Oil Developments Pty Ltd (BOD), Santos (BOL) Pty Ltd (BOL), Reef Oil Pty Ltd (Reef), Alliance Petroleum Australia Pty Ltd (Alliance), Basin Oil NL (Basin) and Crusader Resources NL (Crusader).
- New JOA Cross Charge dated 20 December 1996 between Santos, Delhi, Santos Petroleum, Boral, Vamgas, Crusader, BOD, BOL, Reef, Alliance and Basin.
- Deed of Amendment Unit Cross Charge dated 20 December 1996 between Santos, Delhi, Santos Petroleum, Boral, Vamgas, Crusader, BOD, BOL, Reef, Alliance and Basin.
- Deed of Amendment Downstream Cross Charge dated 20 December 1996 between Santos, Delhi, Santos Petroleum, Boral, Vamgas, Crusader, BOD, BOL, Reef, Alliance and Basin.

Interests in the following areas and licences are now as follows and effective from 1 January 1992.

Farmout Areas	PPLs	Licensees	Interests %
• Patchawarra Central	6 to 20	Santos Vamgas	40.70 8.51
• Merrimelia - Innamincka	22 to 25	Alliance Reef	3.97 1.97
• Murta	27 to	Santos Petroleum	0.40
• Tinga-Tingana	61	BOD	3.99
• Patchawarra South West	63 to 75	BOL Boral	0.21 13.19
• Nappacoongee - Murteree	78 to 83	Delhi Basin	20.21 2.10
• Lake Hope		Crusader	4.75
• Moomba			100.00
• Toolachee			
• Haddon			
• Clifton			
• Koongherra			

R A LAWS
DIRECTOR, PETROLEUM DIVISION
Delegate of the Minister for Mines

PPL 72/7

MEMORANDUM



Petroleum Exploration Licences 32 and 40
Petroleum Exploration Licence 5 and 6.
Petroleum Production Licences Nos 6 to 20, 22 to 72
All PEL 5 and 6 Farmout Areas
Pipeline Licences 2 and 5

Receipt of a Certificate of Registration on Change of Name dated 1 September 1995 is hereby entered on the Petroleum Register.

SAGASCO Resources Ltd has changed its name to Boral Energy Resources Ltd.

J S Zabrowarny
MANAGER PETROLEUM ADMINISTRATION

5 September 1995

502 0139 009

Form 245

W M FOWLER
3RD FL
60 HINDMARSH SQ
ADELAIDE SA 5000

remove this top section if desired before framing

Certificate of Registration on Change of Name

Corporations Law Sub-section 171 (12)

This is to certify that

SAGASCO RESOURCES LIMITED

Australian Company Number 007 845 338

did on the first day of September 1995 change its name to

BORAL ENERGY RESOURCES LIMITED

Australian Company Number 007 845 338

The company is a public company.

The company is limited by shares.

The company is taken to be registered as a company
under the Corporations Law of South Australia.

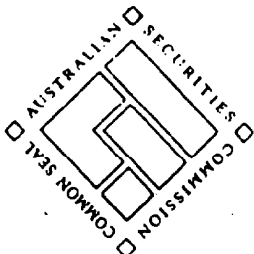


AUSTRALIAN
SECURITIES
COMMISSION

REGISTERED
OFFICE
ADELAIDE

Given under the seal of the
Australian Securities Commission
on this first day of September, 1995.

Alan Cameron
Chairman



PPL 72/6

MEMORANDUM



PETROLEUM EXPLORATION LICENCES 5 AND 6

All Farmout Areas

Petroleum Production Licences 6 to 20, 22 to 61, 63 to 72

**Receipt of a Certificate of Registration on Conversion to a Proprietary Company
is hereby entered on the Petroleum Register.**

Vamgas Ltd is now Vamgas Pty Ltd.

**J.S. Zabrowarny
MANAGER PETROLEUM ADMINISTRATION**

24.1.7 195

502 0139 011

Form **251**

SANTOS LIMITED
ATTN: GRAHAM BOLLENHAGEN
GPO BOX 2319
ADELAIDE SA 5001

remove this top section if desired before framing

Certificate of Registration on Conversion to a Proprietary Company

Corporations Law Sub-section 168 (3)

This is to certify that

VAMGAS LTD.

Australian Company Number 006 245 110

on the nineteenth day of January 1995 converted to a **proprietary company.**

The name of the company is now

VAMGAS PTY LTD

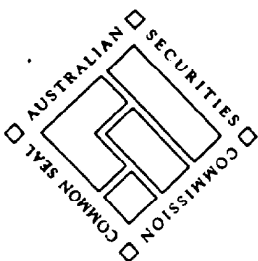
Australian Company Number 006 245 110

The company is taken to be registered as a company
under the Corporations Law of Victoria.



AUSTRALIAN
SECURITIES
COMMISSION

Given under the seal of the
Australian Securities Commission
on this nineteenth day of January, 1995.



Alan Cameron
Chairman

COPY

PPL 72/5

SR 27/2/4 Vol 25

MEMORANDUM

502 0139 012

Petroleum Exploration Licence's 5 and 6

Petroleum Production Licence's 6 to 20, 22 to 61, 63 to 72

Pipeline Licence No. 2

Crusader Resources NL
Westpac Banking Corporation

Receipt of the following document is hereby entered on the Petroleum Register pursuant to delegated powers dated 3 December 1993, Gazetted 9 December 1993 page 2916:

-Deed of Variation of Charge dated 17 May 1994 entered onto by Crusader Resources NL and Westpac Banking Corporation.

This Memorandum is an adjunct to Memorandum dated 10 May 1991 in respect of Fixed and Floating Charge dated 25 August 1989 and Deed of Variation of Charge dated 5 November 1990.



R A LAWS
DIRECTOR, OIL, GAS & COAL DIVISION
DELEGATE OF THE MINISTER FOR MINES & ENERGY

n / b AX



MEMORANDUM

PELs 5 and 6

Farmout Areas and Petroleum Production Licences 6 to 20, 22 to 61 and 63 to 72.

This Memorandum will confirm that on 17th April 1994 I acknowledged receipt of the following documentation pursuant to delegated powers dated 3 December 1993, Gazetted 9 December 1993, page 2916:

- (1) Deed of Consent and Assumption dated 9 March 1994 between Santos Ltd, Crusader Resources NL, Alliance Petroleum Australia NL, Basin Oil NL, Bridge Oil Developments Pty Ltd, Bridge Oil Ltd, Delhi Petroleum Pty Ltd, Reef Oil NL, Sagasco Resources Ltd, Santos Petroleum Pty Ltd, Vamgas Ltd, Australian Hydrocarbons Ltd, Claremont Petroleum NL, Oil Company of Australia Ltd, The Australian Gas Light Company, Pipelines Authority of South Australia and Executor Trustee Australia Ltd.
- (2) JOA Cross Charge 50/40/10 JOA dated 9 March 1994 between Crusader Resources NL, Santos Ltd, Delhi Petroleum Pty Ltd, Sagasco Resources Ltd and Vamgas Ltd.
- (3) JOA Cross Charge Merrimelia-Innamincka JOA dated 9 March 1994 between Crusader Resources NL, Santos Ltd, Alliance Petroleum Australia NL, Delhi Petroleum Pty Ltd, Sagasco Resources Ltd and Vamgas Ltd.
- (4) Covenant and Acknowledgment from Santos Ltd and Crusader Resources NL to Basin Oil NL dated 8 March 1994.

The above documents are as an adjunct to the transfer as contained in the Deed of Assignment and Transfer dated 20 December 1993 between Santos Ltd and Crusader Resources NL which was approved on 17 March 1994 and do not require further approval pursuant to the Petroleum Act, 1940.

A copy of each of the abovementioned documents has been retained on the Petroleum Register.

R A LAWS
DIRECTOR, OIL GAS AND COAL
Delegate of the Minister for Mines and Energy

MEMORANDUM



Petroleum Exploration Licences 5 and 6

Farmout Areas and Petroleum production Licences

This memorandum will confirm that on 17th March 1994 I consented to the transfer as contained in the following documentation in relation to the following areas pursuant to delegated powers dated 3 December 1993, Gazetted 9 December 1993, page 2916.

- Deed of Assignment and Transfer dated 20 December 1993 between Santos Ltd and Crusader Resources N L.

The Assignment and Transfer can take effect as from 1 January 1992 as provided by the abovementioned document.

Interests in the following areas and licences are now as follows.

<u>Farmout Area</u>	<u>PPL</u>	<u>LICENCEES</u>	<u>FORMER INTERESTS</u> %	<u>REVISED INTERESTS</u> %
Moomba	6-7-8-9	Santos Ltd (Santos)	50.0	45.25
	10-11-51	Delhi Petroleum Pty Ltd(Delhi)	30.0	30.0
		Vamgas Ltd (Vamgas)	10.0	10.0
		Sagasco Resources Ltd (SAGASCO)	10.0	10.0
		Crusader Resources NL (Crusader)	-	4.75
Toolachee	12-13-14	Santos	50.0	45.25
	23-24-25	Delhi	30.0	30.0
	40-41-58	Vamgas	10.0	10.0
	69-71-72	SAGASCO	10.0	10.0
		Crusader	-	4.75
Nappacoongee/ Murteree	15-16-22	Santos	35.0	60.25
	30-34-36	Crusader	30.0	4.75
	39	Delhi	21.0	21.0
		Vamgas	7.0	7.0
		SAGASCO	7.0	7.0
Merrimelia/ Innamincka	17-27-33	Alliance Petroleum Aust NL	50.0	50.0
	35-42-43	Santos	25.0	20.25
	44-52-56	Delhi	15.0	15.0
	68	Vamgas	5.0	5.0
		SAGASCO	5.0	5.0
	Crusader	-	4.75	

Patchawarra Central	18-19-20	Santos	25.0	20.25
	29-50-55	Bridge Oil Developments Pty Ltd	23.75	23.75
		Delhi	15.0	15.0
		Basin Oil NL	12.50	12.50
		Reef Oil NL	12.50	12.50
		Vamgas	5.0	5.0
		SAGASCO	5.0	5.0
		Bridge Oil Ltd	1.25	1.25
		Crusader	-	4.75
Patchawarra East	26	Vamgas	43.75	43.75
		Santos	28.571	25.6022
		Delhi	17.143	17.143
		SAGASCO	10.536	10.536
		Crusader	-	2.9688
Patchawarra South West	28-48- 49-66	SAGASCO	30.0	30.0
		Santos	35.0	30.25
		Vamgas	20.0	20.0
		Delhi	15.0	15.0
		Crusader	-	4.75
Murta	31-32-37	Santos	45.0	40.25
	38-53-54	Delhi	27.0	27.0
	57-59-60	Vamgas	14.0	14.0
	61-65-67	SAGASCO	14.0	14.0
	70	Crusader	-	4.75
Lake Hope	45-46-47	Santos	52.0	47.25
	63-64	Delhi	30.0	30.0
		SAGASCO	10.0	10.0
		Vamgas	8.0	8.0
		Crusader	-	4.75
Clifton		Santos	50.0	45.25
		Delhi	30.0	30.0
		Vamgas	10.0	10.0
		SAGASCO	10.0	10.0
		Crusader	-	4.75
Haddon		Santos	52.50	47.75
		Delhi	30.0	30.0
		Vamgas	8.75	8.75
		SAGASCO	8.75	8.75
		Crusader	-	4.75
Koonchera		Santos	50.0	45.25
		Delhi	30.0	30.00
		Vamgas	10.0	10.0
		SAGASCO	10.0	10.0
		Crusader	-	4.75

Tinga-Tingana	Santos	45.0	40.25
	Delhi	27.0	27.0
	Vamgas	14.0	14.0
	SAGASCO	14.0	14.0
	Crusader	-	4.75

This Memorandum is hereby entered on the Petroleum Register.



R A LAWS
DIRECTOR, OIL, GAS & COAL DIVISION
Delegate of the Minister for Mines and Energy

GRANT OF PETROLEUM PRODUCTION LICENCE

Department of Mines and Energy, Parkside, 10 May 1993

NOTICE is hereby given that the undermentioned petroleum production licence has been granted under the provisions of the Petroleum Act, 1940.

F. T BLEVINS, Minister of Mineral Resources

No. of Licence	Licensees	Locality	Date of Expiry	Area in km ²	Reference
56	SANTOS Ltd Delhi Petroleum Pty Ltd SAGASCO Resources Ltd Vamgas Ltd Alliance Petroleum Australia NL	Varanus South field in the Cooper Basin of South Australia	31 December 2013	3.74	SR 28.1.142

DESCRIPTION OF AREA

All that part of the State of South Australia bounded as follows: commencing at a point being the intersection of latitude 27°45'00"S and longitude 140°01'20"E, thence east to longitude 140°02'52"E, south to latitude 27°46'00"S, west to longitude 140°02'00"E, north to latitude 27°45'50"S, west to longitude 140°01'50"E, north to latitude 27°45'40"S, west to longitude 140°01'40"E, north to latitude 27°45'20"S, west to longitude 140°01'20"E, and north to the point of commencement.

All the within latitudes and longitudes are geodetic and expressed in terms of the Australian Geodetic Datum as defined on p. 4984 of Commonwealth *Gazette* Number 84 dated 6 October 1966 except those latitudes and longitudes underlined which are expressed in terms of the Clarke 1858 Spheroid (Transverse Mercator Projection).

GRANT OF PETROLEUM PRODUCTION LICENCE

Department of Mines and Energy, Parkside, 10 May 1993

NOTICE is hereby given that the undermentioned petroleum production licence has been granted under the provisions of the Petroleum Act, 1940.

F. T BLEVINS, Minister of Mineral Resources

No. of Licence	Licensees	Locality	Date of Expiry	Area in km ²	Reference
71	SANTOS Ltd Delhi Petroleum Pty Ltd SAGASCO Resources Ltd Vamgas Ltd	Kerna field in the Cooper Basin of South Australia	31 December 2013	15.68	SR 28.1.184

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°13'10"S and longitude 140°57'50"E, thence east to longitude 140°59'10"E, south to latitude 28°13'30"S, east to longitude 140°59'30"E, south to latitude 28°16'10"S, west to longitude 140°58'10"E, north to latitude 28°15'20"S, west to longitude 140°58'00"E, north to latitude 28°15'00"S, west to longitude 140°57'40"E, north to latitude 28°14'40"S, west to longitude 140°57'20"E, north to latitude 28°13'30"S, east to longitude 140°57'50"E, and north to the point of commencement.

All the within latitudes and longitudes are geodetic and expressed in terms of the Australian Geodetic Datum as defined on p. 4984 of Commonwealth *Gazette* Number 84 dated 6 October 1966.

GRANT OF PETROLEUM PRODUCTION LICENCE

Department of Mines and Energy, Parkside, 10 May 1993

NOTICE is hereby given that the undermentioned petroleum production licence has been granted under the provisions of the Petroleum Act, 1940.

F. T BLEVINS, Minister of Mineral Resources

No. of Licence	Licensees	Locality	Date of Expiry	Area in km ²	Reference
72	SANTOS Ltd Delhi Petroleum Pty Ltd SAGASCO Resources Ltd Vamgas Ltd	Dilchee/ Pira field in the Cooper Basin of South Australia	31 December 2013	17.45	SR 28.1.185

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°11'30"S and longitude 140°52'30"E, thence east to longitude 140°54'10"E, south to latitude 28°12'00"S, east to longitude 140°55'50"E, south to latitude 28°13'10"S, west to longitude 140°55'40"E, south to latitude 28°13'40"S, west to longitude 140°55'20"E, south to latitude 28°14'00"S, west to longitude 140°54'00"E, north to latitude 28°13'40"S, west to longitude 140°53'40"E, north to latitude 28°12'50"S, west to longitude 140°52'30"E, and north to the point of commencement.

All the within latitudes and longitudes are geodetic and expressed in terms of the Australian Geodetic Datum as defined on p. 4984 of Commonwealth *Gazette* Number 84 dated 6 October 1966.



MEMORANDUM

PETROLEUM PRODUCTION LICENCE NO 72

DILCHEE/PIRA FIELD

1. This licence granted on 10/5/93 is hereby entered on the Petroleum Register.
2. A security in the form of a \$15 000 bank guarantee has been lodged with respect to this licence.
3. Interests in the licence area are as follows:-

	%
• Santos Ltd	50
• Delhi Petroleum Pty Ltd	30
• SAGASCO Resources Ltd	10
• Vamgas Ltd	10

Frank Blevins

FRANK BLEVINS MP
MINISTER OF MINERAL RESOURCES

10/5/93

SOUTH AUSTRALIA - PETROLEUM ACT 1940

AND

COOPER BASIN (RATIFICATION) ACT 1975

Petroleum Production Licence Number 72

I, FRANK TREVOR BLEVINS, Minister of Mineral Resources in and for the State of South Australia pursuant to the Petroleum Act, 1940 and the Cooper Basin (Ratification) Act, 1975 and all other enabling powers HEREBY GRANT JOINTLY to SANTOS LIMITED A.C.N. 007 550 923 of 39 Grenfell Street, Adelaide, South Australia, DELHI PETROLEUM PTY. LTD. A.C.N. 007 854 686 of c/- Esso Australia Ltd., Level 34, 360 Elizabeth Street, Melbourne, Victoria, SAGASCO RESOURCES LIMITED A.C.N. 007 845 338 of 60 Hindmarsh Square, Adelaide, South Australia, and VAMGAS LTD. A.C.N. 006 245 110 of 39 Grenfell Street, Adelaide, South Australia, a Petroleum Production Licence in respect of the areas described hereunder:-

COMMISSIONER OF STAMPS

DESCRIPTION OF THE AREA

S.A. STAMP DUTY
DOCUMENT 1 OF 6
30/04/93 14:48:54 0070303,1
EXEMPT / NOT CHARGEABLE

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

Commencing at a point being the intersection of latitude 28°11'30"S and longitude 140°52'30"E, thence east to longitude 140°54'10"E, south to latitude 28°12'00"S, east to longitude 140°55'50"E, south to latitude 28°13'10"S, west to longitude 140°55'40"E, south to latitude 28°13'40"S, west to longitude 140°55'20"E, south to latitude 28°14'00"S, west to longitude 140°54'00"E, north to latitude 28°13'40"S, west to longitude 140°53'40"E, north to latitude 28°12'50"S, west to longitude 140°52'30"E, and north to the point of commencement.

All the within latitudes and longitudes are geodetic and expressed in terms of the Australian Geodetic Datum as defined on p.4984 of Commonwealth Gazette Number 84 dated 6 October, 1966.

TERMS AND CONDITIONS

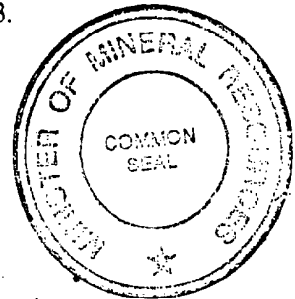
1. The term of this licence is twenty-one (21) years commencing on and inclusive of the First day of January 1993 with the right, subject to carrying out adequately the obligations of the licence, to renewal from time to time on the same terms and conditions for further terms of twenty-one (21) years.
2. The licensees hereby covenant with the Minister that they will make payment of the yearly rent provided under the Petroleum Act, 1940 and of the royalty referred to in the Cooper Basin (Ratification) Act, 1975 and will subject to the provisions of the Cooper Basin (Ratification) Act, 1975 comply with the provisions of the Petroleum Act, 1940 and with all Regulations for the time being in force under that Act and with any directions given by the Minister the Director-General of Mines and Energy or any other person pursuant to that Act or the said Regulations.
3. The Minister hereby gives and records his consent to the grant by the licensees of five (5) Sub-Licences pursuant to the provisions of the Cooper Basin (Ratification) Act, 1975 in the form of or to the effect set out in the Schedule hereto.
4. It is hereby acknowledged and agreed that the licensees own and hold the following undivided interests respectively in and under this licence:-

<u>Santos</u>	:	Fifty per centum (50%)
<u>Delhi</u>	:	Thirty per centum (30%)
<u>SAGASCO</u>	:	Ten per centum (10%)
<u>Vamgas</u>	:	Ten per centum (10%)

PROVIDED that nothing in this Clause contained shall in any way affect or derogate from the rights, duties and liabilities of the licensees (as determined pursuant to the Indenture as defined in the Cooper Basin (Ratification) Act, 1975 and the Petroleum Act, 1940) to the Minister under this licence AND PROVIDED FURTHER that as between the licensees the undivided interests so owned and held by the licensees shall be subject to the provisions of a Joint Operating Agreement dated the 28th day of June, 1973 to which the licensees are parties and as the same has been amended and as may hereafter be amended from time to time.

SIGNED, SEALED AND DELIVERED by the said Minister of Mineral Resources at

ADELAIDE this 10 day of MAY 1993.



Frank Blewett

MINISTER OF MINERAL RESOURCES

SIGNED, SEALED AND DELIVERED by the said Licensees at

Adelaide

this 23rd day of April 1993.

Executed on behalf of)
SANTOS LIMITED by being)
Signed, Sealed and Delivered)
 by its duly authorised)
 Attorney under Power of)
 Attorney who hereby states)
 that he has received no)
 notice of revocation of the)
 Power of Attorney effecting)
 such appointment, in the)
 presence of)

[Signature]

(WITNESS)

[Signature]

JOHN BRYAN FITZGERALD

SIGNED, SEALED AND DELIVERED

for and on behalf of DELHI PETROLEUM PTY. LTD. by

JAN WILLIAM ANGUS
its duly authorised Attorney
under Power of Attorney
dated the 12th day of FEBRUARY
1993, who hereby states that
he has no notice of revocation
of the said Power of Attorney
at the time of executing this
instrument in the presence of:

**DELHI PETROLEUM PTY. LTD.
BY ITS ATTORNEY**

[Handwritten Signature]

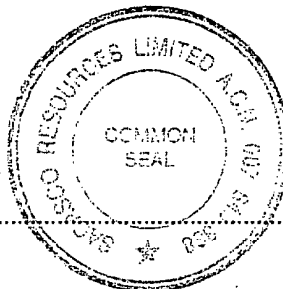
JAN WILLIAM ANGUS

Delhi Petroleum Pty Ltd by its Attorney

[Handwritten Signature]

(WITNESS)

**THE COMMON SEAL of SAGASCO
RESOURCES LIMITED** was)
hereunto affixed in the)
presence of:)



[Handwritten Signature]
(SECRETARY)

[Handwritten Signature]

(DIRECTOR)

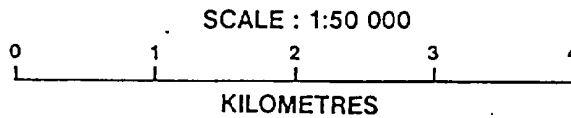
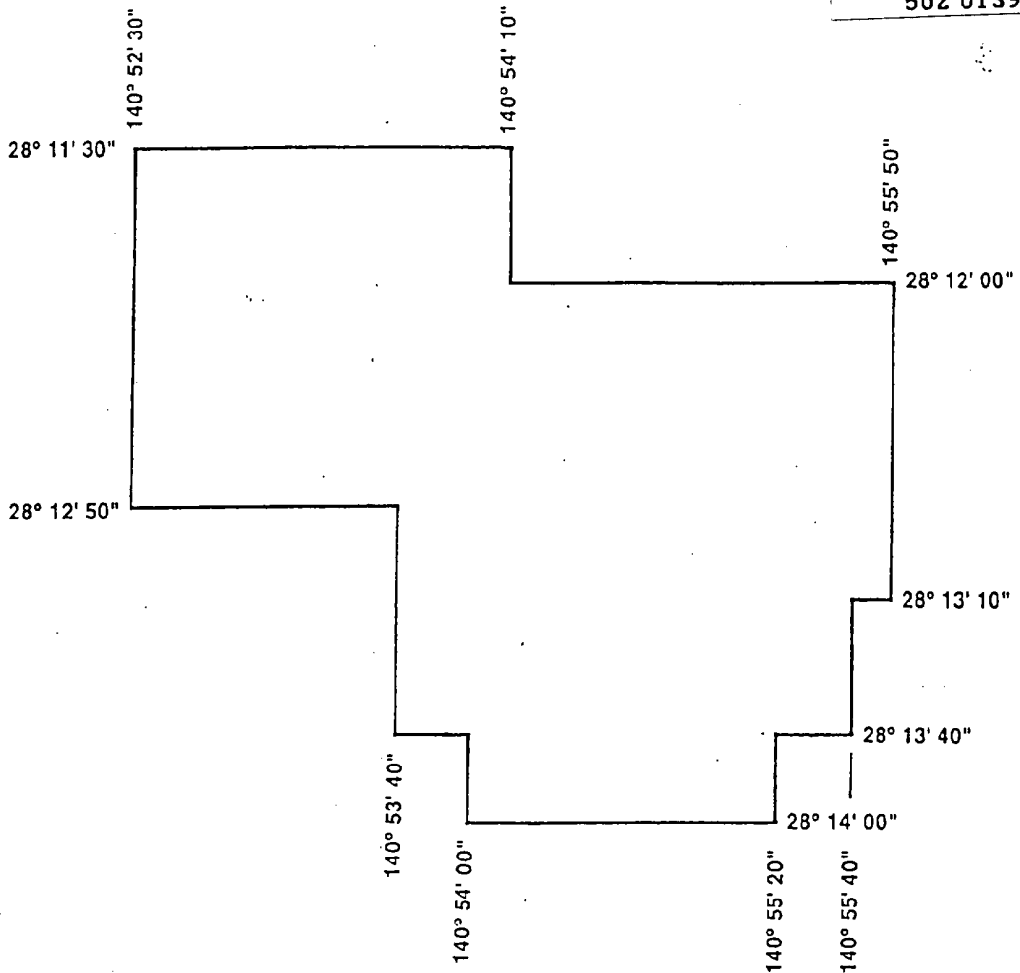
Executed on behalf of)
VAMGAS LTD. by being)
Signed, Sealed and Delivered)
by its duly authorised)
Attorney under Power of)
Attorney who hereby states)
that he has received no)
notice of revocation of the)
Power of Attorney effecting)
such appointment, in the)
presence of:)

[Handwritten Signature]

(WITNESS)

[Handwritten Signature]

JOHN BRYAN FITZGERALD



All within latitudes and longitudes are geodetic and expressed in terms of the Australian Geodetic Datum as defined on p.4984 of Commonwealth Gazette number 84 dated October 6, 1966,

**SANTOS LIMITED DELHI PETROLEUM PTY. LTD.
VAMGAS LIMITED SAGASCO RESOURCES LTD.**

PIRA/DILCHEE FIELDS

PETROLEUM PRODUCTION LICENCE NO. 72



THIS DEED OF SUB-LICENCE made the day of 19 .

B E T W E E N :

SANTOS LIMITED A.C.N. 007 550 923 whose registered office is situated at 39 Grenfell Street, Adelaide in the State of South Australia (hereinafter sometimes called "Santos" which expression where the context requires or permits shall include its successors and assigns);

AND

DELHI PETROLEUM PTY. LTD. A.C.N. 007 854 686 whose registered office is situated at c/- Esso Australia Ltd., Level 34, 360 Elizabeth Street, Melbourne in the State of Victoria (hereinafter sometimes called "Delhi" which expression where the context requires or permits shall include its successors and assigns);

AND

SAGASCO RESOURCES LIMITED A.C.N. 007 845 338 whose registered office is situated at 60 Hindmarsh Square, Adelaide in the State of South Australia (hereinafter sometimes called "SAGASCO" which expression where the context requires or permits shall include its successors and assigns);

AND

VAMGAS LTD. A.C.N. 006 245 110 whose registered office is situated at 39 Grenfell Street, Adelaide in the State of South Australia (hereinafter sometimes called "Vamgas" which expression where the context requires or permits shall include its successors and assigns);

the said companies being hereinafter collectively called "the Licensors" which expression where the context requires or permits shall include their respective successors and assigns);

OF THE ONE PART

AND

SANTOS LIMITED A.C.N. 007 550 923 whose registered office is situated at 39 Grenfell Street, Adelaide in the State of South Australia (hereinafter sometimes called "Santos" which expression where the context requires or permits shall include its successors and assigns);

AND

DELHI PETROLEUM PTY. LTD. A.C.N. 007 854 686 whose registered office is situated at c/- Esso Australia Ltd., Level 34, 360 Elizabeth Street, Melbourne in the State of Victoria (hereinafter sometimes called "Delhi" which expression where the context requires or permits shall include its successors and assigns);

AND

VAMGAS LTD. A.C.N. 006 245 110 whose registered office is situated at 39 Grenfell Street, Adelaide in the State of South Australia (hereinafter sometimes called "Vamgas" which expression where the context requires or permits shall include its successors and assigns);

AND

SAGASCO RESOURCES LIMITED A.C.N. 007 845 338 whose registered office is situated at 60 Hindmarsh Square, Adelaide in the State of South Australia (hereinafter sometimes called "SAGASCO" which expression where the context requires or permits shall include its successors and assigns);

AND

CRUSADER RESOURCES NO LIABILITY A.C.N. 004 761 255 whose registered office is situated at 27th Floor, 12 Creek Street, Brisbane in the State of Queensland (hereinafter sometimes called "Crusader" which expression where the context requires or permits shall include its successors and assigns);

AND

ALLIANCE PETROLEUM AUSTRALIA NO LIABILITY A.C.N. 004 559 951 whose registered office is situated at 39 Grenfell Street, Adelaide in the State of South Australia (hereinafter sometimes called "Alliance" which expression where the context requires or permits shall include its successors and assigns);

AND

BASIN OIL NO LIABILITY A.C.N. 000 628 017 whose registered office is situated at c/- Cultus Petroleum N.L., Level 1, 25 Merriwa Street, Gordon in the State of New South Wales (hereinafter sometimes called "Basin" which expression where the context requires or permits shall include its successors and assigns);

AND

BRIDGE OIL LIMITED A.C.N. 000 670 575 whose registered office is situated at Level 9, 255 Elizabeth Street, Sydney in the State of New South Wales (hereinafter sometimes called "Bridge" which expression where the context requires or permits shall include its successors and assigns);

AND

REEF OIL NO LIABILITY A.C.N. 000 646 800 whose registered office is situated at 39 Grenfell Street, Adelaide in the State of South Australia (hereinafter sometimes called "Reef" which expression where the context requires or permits shall include its successors and assigns);



AND

BRIDGE OIL DEVELOPMENTS PTY. LTD. A.C.N. 001 152 049 whose registered office is situated at Level 9, 255 Elizabeth Street, Sydney in the State of New South Wales (hereinafter sometimes called "BOD" which expression where the context requires or permits shall include its successors and assigns);

AND

SANTOS PETROLEUM PTY. LTD. A.C.N. 000 146 369 whose registered office is situated at 39 Grenfell Street, Adelaide in the State of South Australia (hereinafter sometimes called "Santos Petroleum" which expression where the context requires or permits shall include its successors and assigns);

(the said companies being hereinafter collectively called "the Licensees" which expression where the context requires or permits shall include their respective successors and assigns);

OF THE OTHER PART

W H E R E A S :-

- A. The Licensors are the holders of Petroleum Production Licence No. [] granted by the Minister of Mines and Energy of the State of South Australia pursuant to the powers in the Petroleum Act, 1940 and the Cooper Basin (Ratification) Act, 1975 over certain land in the State of South Australia as more particularly described in the said Petroleum Production Licence No. [].
- B. The Licensees are parties to an agreement made as of the 1st day of January, 1975 known as the South Australian Cooper Basin Unit Agreement (hereinafter and as the same has been and may hereafter be amended from time to time referred to as

"the Unit Agreement") relating inter alia to the development and production of petroleum from that sub-surface portion of the area comprised in the said Petroleum Production Licence No. [] as the same is more particularly described in the Schedule hereto.

- C. The Licensors with the consent of the Minister of Mines and Energy of the State of South Australia have agreed to grant and the Licensees have agreed to accept a sub-licence to exercise the rights specified in Clause 1 hereof upon the conditions specified in Clauses 2, 3, 4 and 5 hereof.

NOW THIS DEED WITNESSETH AS FOLLOWS :-

1. The Licensors with the consent of the Minister of Mines and Energy of the State of South Australia hereby grant to each of the Licensees severally the exclusive right for a period of twenty-one (21) years commencing and inclusive of the First day of January 1993 (with the right of renewal hereinafter contained) subject to the provisions of this Deed of Sub-Licence to :-
 - (a) conduct operations for the appraisal and production of petroleum from such sub-surface portion of the area comprised in the said Petroleum Production Licence No. [] as is more particularly described in the Schedule hereto (hereinafter referred to as "the Unitized Zone") and subject to Clause 2 hereof to own all petroleum extracted or released therefrom; and
 - (b) construct and maintain upon the land comprised in the said Petroleum Production Licence No. [] all such facilities as the Licensors are entitled to construct and maintain thereon pursuant to Section 33 of the Petroleum Act, 1940 or the Cooper Basin (Ratification) Act, 1975 (or both) of the State of South Australia and

as are necessary from time to time for the full enjoyment of the rights granted pursuant to Clause 1(a) hereof.

2. Each of the Licensees hereby expressly acknowledges, covenants and agrees with the Licensors and with each of the other Licensees that in the exercise of exclusive rights granted pursuant to Clause 1 hereof each Licensee shall at all times act subject to and in accordance with the provisions of the Unit Agreement (and in particular to the provisions of Clause 13.01 thereof which refers to an overriding royalty in favour of Santos) and that such rights shall entitle each Licensee to extract or release from the Unitized Zone so much of the petroleum within the Unitized Zone as such Licensee is entitled to from time to time in accordance with its Gas Unit Participation, Ethane Unit Participation, Propane Unit Participation, Butane Unit Participation, Condensate Unit Participation, Crude Oil Unit Participation and its Additional Plant Products Unit Participation or Participations in accordance with the provisions of the Unit Agreement.

3. The Licensees hereby jointly and severally covenant with the Licensors that they will make payment in accordance with the Unit Agreement, as amended, of the royalty referred to in the Cooper Basin (Ratification) Act, 1975 in respect to the production referred to in Clause 2 hereof and subject to the provisions of the Cooper Basin (Ratification) Act, 1975 make payment in accordance with the Unit Agreement of the yearly rent provided under the said Petroleum Act, 1940 and will subject as aforesaid comply with the provisions of the said Petroleum Act, 1940 and with all Regulations for the time being in force under that Act and with any directions given by the Minister, the Director-General of Mines and Energy or any other person pursuant to that Act or the said Regulations and the Licensees hereby further jointly and severally

covenant with the Licensors not to do any act or thing or make any omission which would cause the Licensors to be in breach or default of the provisions of the said Petroleum Production Licence No. [] or of the provisions of the said Petroleum Act, 1940 or of any Regulation for the time being in force under that Act or with any direction given by the Minister, the Director-General of Mines and Energy or any other person pursuant to that Act or the said Regulations.

4. Subject to the due compliance by the Licensees with their obligations under this Deed of Sub-Licence the Licensors hereby covenant with the Licensees:-
 - (a) to perform the covenants and obligations on the part of the Licensors contained in the said Petroleum Production Licence No. [];
 - (b) that for such period as the same is required for the purpose of the Unit Agreement, to exercise their rights of renewal pertaining to the said Petroleum Production Licence No. []; and
 - (c) to renew the provisions of this Deed of Sub-Licence on the same terms and conditions during any renewed term of the said Petroleum Production Licence No. [] for such period as aforesaid.
5. The rights of the Licensees or any of them granted pursuant to the foregoing provisions of this Deed of Sub-Licence shall not be sold assigned transferred leased sub-let mortgaged pledged charged encumbered or otherwise disposed of other than subject to and in accordance with the provisions of Article XV of the Unit Agreement and subject to Section 42 of the said Petroleum Act, 1940 and Clause 14.2 of the Indenture as defined in the Cooper Basin (Ratification) Act, 1975.



IN WITNESS WHEREOF the Parties hereto sign seal and deliver the foregoing presents and have hereunto set their respective hands and seals as of the day and year first above written.

Executed on behalf of)
ALLIANCE PETROLEUM)
AUSTRALIA N.L. by being)
Signed Sealed and Delivered)
by its duly authorised)
Attorney under Power of)
Attorney who hereby states)
that he has received no)
notice of revocation of the)
Power of Attorney effecting)
such appointment, in the)
the presence of:)

.....
(Witness)

THE COMMON SEAL of BASIN OIL)
NO LIABILITY was hereunto)
affixed in the presence of:-)

.....
Secretary

.....
Director

THE COMMON SEAL of BRIDGE)
OIL LIMITED was hereunto)
affixed in the presence of:-)

.....
Secretary

.....
Director

SIGNED, SEALED AND DELIVERED
for and on behalf of DELHI
PETROLEUM PTY. LTD. by

its duly authorised Attorney
under Power of Attorney
dated the day of
19 , who hereby states that
he has no notice of revocation
of the said Power of Attorney
at the time of executing this
instrument in the presence of:

.....
(Witness)

.....
Delhi Petroleum Pty. Ltd.
by its Attorney

THE COMMON SEAL of CRUSADER)
RESOURCES NO LIABILITY was)
hereunto affixed in the)
presence of:-)

.....
Secretary

.....
Director

Executed on behalf of)
REEF OIL N.L. by being)
Signed Sealed and Delivered)
by its duly authorised)
Attorney under Power of)
Attorney who hereby states)
that he has received no)
notice of revocation of the)
Power of Attorney effecting)
such appointment, in the)
the presence of:)

.....
(Witness)

.....



Executed on behalf of)
SANTOS LIMITED by being)
Signed Sealed and Delivered)
 by its duly authorised)
 Attorney under Power of)
 Attorney who hereby states)
 that he has received no)
 notice of revocation of the)
 Power of Attorney effecting)
 such appointment, in the)
 the presence of:)

.....
 (Witness)

Executed on behalf of)
SANTOS PETROLEUM PTY. LTD.)
 by being Signed Sealed and)
Delivered by its duly)
 authorised Attorney under)
 Power of Attorney who hereby)
 states that he has received)
 no notice of revocation of)
 the Power of Attorney)
 effecting such appointment,)
 in the the presence of:)

.....
 (Witness)

Executed on behalf of)
VAMGAS LTD. by being)
Signed Sealed and Delivered)
 by its duly authorised)
 Attorney under Power of)
 Attorney who hereby states)
 that he has received no)
 notice of revocation of the)
 Power of Attorney effecting)
 such appointment, in the)
 the presence of:)

.....
 (Witness)



THE COMMON SEAL of BRIDGE)
OIL DEVELOPMENTS PTY. LTD.)
was hereunto affixed in the)
presence of:-)

.....
Secretary

.....
Director

THE COMMON SEAL of SAGASCO)
RESOURCES LIMITED was)
hereunto affixed in the)
presence of:-)

.....
Secretary

.....
Director

PIRA AND DILCHEE FIELDS,
THE SUB-LICENCES REFERRED TO IN THE APPLICATION
FOR A PETROLEUM PRODUCTION LICENCE

The Sub-Licences referred to in this Application for a Petroleum Production Licence are in respect of Unitized Zones described, respectively, as:

- (1) The stratigraphic unit named (or to be named) as the Pira Field, Toolachee Formation in the First Schedule to the Unit Agreement and being as more particularly described (or to be described) therein together with all lateral extensions to such stratigraphic unit as may from time to time become subject to the Unit Agreement and which underlie the area described in the said Petroleum Production Licence.
- (2) The stratigraphic unit named (or to be named) as the Dilchee Field, Unit "P1" Patchawarra Formation in the First Schedule to the Unit Agreement and being as more particularly described (or to be described) therein together with all lateral extensions to such stratigraphic unit as may from time to time become subject to the Unit Agreement and which underlie the area described in the said Petroleum Production Licence.
- (3) The stratigraphic unit named (or to be named) as the Pira Field, Unit "P1" Patchawarra Formation in the First Schedule to the Unit Agreement and being as more particularly described (or to be described) therein together with all lateral extensions to such stratigraphic unit as may from time to time become subject to the Unit Agreement and which underlie the area described in the said Petroleum Production Licence.
- (4) The stratigraphic unit named (or to be named) as the Dilchee Field, Unit "P2" Patchawarra Formation in the First Schedule to the Unit Agreement and being as more particularly described (or to be described) therein together with all lateral extensions to such stratigraphic unit as may from time to time become subject to the Unit Agreement and which underlie the area described in the said Petroleum Production Licence.
- (5) The stratigraphic unit named (or to be named) as the Pira Field, Unit "P2" Patchawarra Formation in the First Schedule to the Unit Agreement and being as more particularly described (or to be described) therein together with all lateral extensions to such stratigraphic unit as may from time to time become subject to the Unit Agreement and which underlie the area described in the said Petroleum Production Licence.

In accordance with Section 117 of the *Petroleum Act 2000* (Act) this document forms part of 'The Commercial Register'.

Section 118 of the Act provides for the following:

Authority to search register

(1) A person is entitled to have access to the material included in the commercial register, on payment of the prescribed inspection fee, if the access is authorised by—

- (a) a person who has a legal or equitable interest in the relevant licence or registered dealing; or
- (b) (b) the Minister.

(2) The Minister must not authorise access under subsection (1)(b) unless the Minister has consulted with the licensee to whom the material relates and is satisfied that access should be authorised in the public interest.

FOR FURTHER INFORMATION PLEASE CONTACT:

Department of State Development
Energy Resources Division
GPO Box 320,
Adelaide SA 5001
(08) 8463 3204