

## INDEX OF DOCUMENTS HELD ON THE PUBLIC REGISTER FOR PPL 194

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1. 12 June 2001 Deed dated 12 June 2001 between the Minister for Minerals and Energy and:  
  
Origin Energy Resources Limited  
Delhi Petroleum Pty Ltd  
Novus Australia Resources NL  
Santos Limited  
Vamgas Pty Ltd
  
2. 15 June 2001 Licence document dated 15 June 2001  
  
Interests in the Licence:  
  

Santos Limited	25.6022%
Delhi Petroleum Pty Ltd	17.143%
Origin Energy Resources Limited	10.536%
Vamgas Pty Ltd	43.75%
Novus Australia Resources NL	2.9688%
  
3. 15 June 2001 Memorandum entering licence on the public register and notating receipt of security.
  
4. 21 June 2001 Grant of Licence published in the South Australian Government Gazette dated 21 June 2001, Page 2295.
  
5. 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.
  
6. 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
  
7. 23 November 2005 Notation of discharge of security and receipt of replacement security is entered on the public register.
  
8. 21 December 2005 Deed to Amend Patchawarra East Area Deeds dated 24 October 2005 between the Minister for Minerals Resources Development and:  
  
Origin Energy Resources Limited  
Delhi Petroleum Pty Ltd  
Novus Australia Resources NL  
Santos Limited  
Vamgas Pty Ltd

9. 13 January 2006 Certificate of Registration on Change of Name dated 29 June 2005:  
From: Novus Australia Resources NL  
To: Santos (NARNL Cooper) NL
10. 13 January 2006 Memorandum entering change of company name on the Public Register.
11. 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.
12. 9 May 2006 Memorandum entering change of company name on the Public Register
13. 3 September 2008 Deed to Amend James Deed dated 30 June 2008 between the Minister for Mineral Resources Development and –  
  
Origin Energy Resources Limited  
Delhi Petroleum Pty Ltd  
Santos (NARNL Cooper) Pty Ltd  
Santos Limited; and  
Vamgas Pty Ltd
14. 21 July 2009 Partial Surrender of Licence Area and Revocation of Licence Condition.
15. 21 July 2009 Memorandum entering partial surrender and revocation on public register.
16. 23 July 2009 Gazettal of partial surrender of licence area.
17. 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
18. 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
19. 9 August 2017 Certificate of Registration on Change of Company Name dated 29 June 2017.  
  
From: Origin Energy Resources Limited  
To: Lattice Energy Limited

20. 9 August 2017 Memorandum entering notation of change of company name on the public register.
21. 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
22. 22 January 2020 Certificate of Registration on Change of Name dated 2 December 2019.
- From: Lattice Energy Limited  
To: Beach Energy (Operations) Limited
23. 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.

A handwritten signature in black ink that reads 'James Shipton'.

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**

**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

*Partial Surrender of Petroleum Production Licences*

NOTICE is hereby given that pursuant to section 89 of the Petroleum Act 2000, I have accepted the partial surrender of the below-mentioned Petroleum Production Licence areas, pursuant to delegated powers dated 28 March 2002, *Gazetted* 11 April 2002, page 1573:

No of Licence	Licencees	Locality	Date of Surrender	Approx. Area surrendered in km <sup>2</sup>	Reference
PPL 145	Delhi Petroleum Pty Ltd Origin Energy Resources Limited Vamgas Pty Ltd Santos (NARNL Cooper) Pty Ltd Bridge Oil Developments Pty Ltd Alliance Petroleum Aust Pty Ltd Basin Oil Pty Ltd Reef Oil Pty Ltd Santos Petroleum Pty Ltd Santos (BOL) Pty Ltd	Cooper Basin of South Australia	1.7.08	5.50	28/1/262
PPL 148			1.7.08	6.96	28/1/294
PPL 174			1.1.09	0.38	28/1/305
PPL 175			1.7.08	44.40	28/1/315
PPL 178			1.7.08	2.46	28/1/332
PPL 179			1.7.08	1.27	28/1/280
PPL 190			1.7.08	228.29	28/1/314
PPL 193			1.7.08	5.030	28/1/312
PPL 195			1.7.08	1.080	28/1/308
PPL 182	Santos Ltd Delhi Petroleum Pty Ltd Origin Energy Resources Ltd Vamgas Pty Ltd Santos (NARNL Cooper) Pty Ltd	Cooper Basin of South Australia	1.1.09	2.030	28/1/149
PPL 187			1.7.08	4.62	28/1/252
PPL 194			1.1.09	4.49	28/1/242

*Description of Licence Areas Remaining**PPL 145*

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

Commencing at a point being the intersection of latitude 28°25'00"S Clarke1858 and longitude 139°57'00"E AGD66, thence east to longitude 139°58'15"E AGD66, south to latitude 28°25'30"S GDA94, east to longitude 139°58'40"E GDA94, south to latitude 28°25'35"S GDA94, east to longitude 139°58'55"E GDA94, south to latitude 28°26'00"S GDA94, east to longitude 139°59'10"E GDA94, south to latitude 28°27'10"S GDA94, east to longitude 139°59'20"E GDA94, south to latitude 28°27'25"S AGD66, west to longitude 139°58'45"E AGD66, south to latitude 28°27'35"S AGD66, west to longitude 139°58'30"E AGD66, south to latitude 28°27'50"S AGD66, west to longitude 139°57'40"E GDA94, north to latitude 28°27'30"S GDA94, west to longitude 139°57'20"E AGD66, north to latitude 28°26'45"S AGD66, east to longitude 139°57'25"E AGD66, north to latitude 28°26'00"S AGD66, east to longitude 139°57'35"E AGD66, north to latitude 28°25'35"S AGD66, west to longitude 139°57'00"E AGD66 and north to point of commencement.

Area: 12.5 km<sup>2</sup> approximately.

*PPL 148*

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

Commencing at a point being the intersection of latitude 27°47'00"S GDA94 and longitude 139°46'45"E GDA94, thence east to longitude 139°46'50"E GDA94, south to latitude 27°47'05"S GDA94, east to longitude 139°46'55"E GDA94, south to latitude 27°47'13"S GDA94, east to longitude 139°47'00"E GDA94, south to latitude 27°47'40"S GDA94, west to longitude 139°46'55"E GDA94, south to latitude 27°47'48"S GDA94, west to longitude 139°46'50"E GDA94, south to latitude 27°47'50"S GDA94, west to longitude 139°46'30"E GDA94, south to latitude 27°47'52"S GDA94, west to longitude 139°46'25"E GDA94, south to latitude 27°47'55"S GDA94, west to longitude 139°46'20"E GDA94, north to latitude 27°47'52"S GDA94, west to longitude 139°46'15"E GDA94, north to latitude 27°47'47"S GDA94, west to longitude 139°46'10"E GDA94, north to latitude 27°47'28"S GDA94, east to longitude 139°46'20"E GDA94, north to latitude 27°47'25"S GDA94, east to longitude 139°46'25"E GDA94, north to latitude 27°47'20"S GDA94, east to longitude 139°46'30"E GDA94, north to latitude 27°47'17"S GDA94, east to longitude 139°46'35"E GDA94, north to latitude 27°47'10"S GDA94, east to longitude 139°46'40"E GDA94, north to latitude 27°47'05"S GDA94, east to longitude 139°46'45"E GDA94 and north to point of commencement.

Area: 1.44 km<sup>2</sup> approximately.

*PPL 174*

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

Commencing at a point being the intersection of latitude 27°39'30"S AGD66 and longitude 140°15'00"E AGD66, thence east to longitude 140°17'00"E AGD66, south to latitude 27°40'35"S GDA94, west to longitude 140°16'55"E GDA94, south to latitude 27°40'40"S GDA94, west to longitude 140°16'45"E GDA94, south to latitude 27°40'45"S GDA94, west to longitude 140°16'40"E GDA94, south to latitude 27°40'50"S GDA94, west to longitude 140°16'30"E GDA94, south to latitude 27°41'00"S AGD66, west to longitude 140°16'00"E Clarke1858, north to latitude 27°41'00"S Clarke1858, west to longitude 140°14'00"E Clarke1858, south to latitude 27°41'40"S AGD66, west to longitude 140°13'20"E AGD66, north to latitude 27°40'50"S AGD66, east to longitude 140°13'40"E AGD66, north to latitude 27°40'40"S AGD66, east to longitude 140°14'00"E AGD66, north to latitude 27°40'30"S AGD66, east to longitude 140°14'10"E AGD66, north to latitude 27°40'10"S AGD66, east to longitude 140°14'30"E AGD66, north to latitude 27°40'00"S AGD66, east to longitude 140°15'00"E AGD66 and north to point of commencement.

Area: 12.92 km<sup>2</sup> approximately.

*PPL 175*

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

Commencing at a point being the intersection of latitude 28°13'50"S AGD66 and longitude 139°55'05"E GDA94, thence east to longitude 139°55'40"E GDA94, south to latitude 28°14'30"S AGD66, west to longitude 139°54'40"E AGD66, north to latitude 28°14'05"S GDA94, east to longitude 139°54'55"E GDA94, north to latitude 28°13'55"S GDA94, east to longitude 139°55'00"E GDA94, north to latitude 28°13'50"S GDA94, east to longitude 139°55'05"E GDA94 and north to point of commencement.

Area: 1.6 km<sup>2</sup> approximately.

*PPL 178*

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

Commencing at a point being the intersection of latitude 27°52'40"S AGD66c and longitude 140°04'40"E AGD66, thence east to longitude 140°05'45"E GDA94, south to latitude 27°53'00"S GDA94, west to longitude 140°05'40"E GDA94, south to latitude 27°54'00"S Clarke1858, west to longitude 140°03'30"E AGD66, north to latitude 27°53'40"S AGD66, east to longitude 140°03'40"E AGD66, north to latitude 27°53'30"S AGD66, east to longitude 140°04'00"E AGD66, north to latitude 27°53'20"S AGD66, east to longitude 140°04'10"E AGD66, north to latitude 27°53'10"S AGD66, east to longitude 140°04'20"E AGD66, north to latitude 27°53'00"S AGD66, east to longitude 140°04'30"E AGD66, north to latitude 27°52'50"S AGD66, east to longitude 140°04'40"E AGD66 and north to point of commencement.

Area: 6.34 km<sup>2</sup> approximately.

*PPL 179*

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

Commencing at a point being the intersection of latitude 28°22'40"S AGD66 and longitude 140°05'00"E AGD66, thence east to longitude 140°05'35"E GDA94, south to latitude 28°22'50"S AGD66, east to longitude 140°06'00"E AGD66, south to latitude 28°23'10"S AGD66, west to longitude 140°05'55"E AGD66, south to latitude 28°23'15"S AGD66, west to longitude 140°05'50"E AGD66, south to latitude 28°23'25"S AGD66, west to longitude 140°05'45"E GDA94, south to latitude 28°23'35"S GDA94, east to longitude 140°05'50"E GDA94, south to latitude 28°23'50"S GDA94, west to longitude 140°05'45"E GDA94, south to latitude 28°24'20"S AGD66, west to longitude 140°05'35"E AGD66, south to latitude 28°24'25"S AGD66, west to longitude 140°05'30"E AGD66, south to latitude 28°24'25"S GDA94, west to longitude 140°05'05"E GDA94, north to latitude 28°24'15"S GDA94, west to longitude 140°05'00"E GDA94, north to latitude 28°24'00"S GDA94, west to longitude 140°04'50"E AGD66, north to latitude 28°23'50"S AGD66, west to longitude 140°04'40"E AGD66, north to latitude 28°23'25"S GDA94, east to longitude 140°04'50"E GDA94, north to latitude 28°23'20"S GDA94, east to longitude 140°04'55"E GDA94, north to latitude 28°23'05"S GDA94, east to longitude 140°05'00"E GDA94, north to latitude 28°23'00"S GDA94, east to longitude 140°05'00"E AGD66 and north to point of commencement.

Area: 4.83 km<sup>2</sup> approximately.

*PPL 190*

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

Commencing at a point being the intersection of latitude 28°19'00"S Clarke1858 and longitude 140°13'40"E GDA94, thence east to longitude 140°15'10"E GDA94, south to latitude 28°19'15"S GDA94, west to longitude 140°15'00"E GDA94, south to latitude 28°19'35"S GDA94, west to longitude 140°14'40"E GDA94, south to latitude 28°19'45"S GDA94, west to longitude 140°14'20"E GDA94, south to latitude 28°19'50"S GDA94, west to longitude 140°14'05"E GDA94, south to latitude 28°19'55"S GDA94, west to longitude 140°13'25"E GDA94, north to latitude 28°19'05"S GDA94, east to longitude 140°13'40"E GDA94 and north to point of commencement.

Area: 4.31 km<sup>2</sup> approximately.

*PPL 193*

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

Commencing at a point being the intersection of latitude 27°33'50"S AGD66 and longitude 140°04'30"E AGD66, thence east to longitude 140°06'00"E Clarke1858, south to latitude 27°34'20"S AGD66, west to longitude 140°05'40"E AGD66, south to latitude 27°34'30"S AGD66, west to longitude 140°05'20"E AGD66, south to latitude 27°34'40"S AGD66, west to longitude 140°04'50"E AGD66, south to latitude 27°34'50"S AGD66, west to longitude 140°04'20"E AGD66, south to latitude 27°35'00"S AGD66, west to longitude 140°04'10"E AGD66, south to latitude 27°35'10"S AGD66, west to longitude 140°03'55"E GDA94, north to latitude 27°34'50"S GDA94, west to longitude 140°03'50"E GDA94, north to latitude 27°34'30"S GDA94, east to longitude 140°03'55"E GDA94, north to latitude 27°34'10"S AGD66, east to longitude 140°04'20"E AGD66, north to latitude 27°34'00"S AGD66, east to longitude 140°04'30"E AGD66 and north to point of commencement.

Area: 5.17 km<sup>2</sup> approximately.

*PPL 195*

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

Commencing at a point being the intersection of latitude 27°32'40"S AGD66 and longitude 140°23'20"E AGD66, thence east to longitude 140°23'40"E AGD66, south to latitude 27°32'50"S AGD66, east to longitude 140°24'00"E GDA94, south to latitude 27°32'55"S GDA94, east to longitude 140°24'00"E AGD66, south to latitude 27°33'20"S AGD66, west to longitude 140°23'50"E AGD66, south to latitude 27°33'35"S AGD66, west to longitude 140°23'45"E AGD66, south to latitude 27°33'50"S AGD66, west to longitude 140°23'40"E AGD66, south to latitude 27°33'55"S AGD66, west to longitude 140°23'35"E AGD66, south to latitude 27°34'00"S AGD66, west to longitude 140°23'30"E AGD66, south to latitude 27°34'10"S AGD66, west to longitude 140°23'25"E AGD66, south to latitude 27°34'20"S AGD66, west to longitude 140°23'20"E AGD66, south to latitude 27°34'25"S AGD66, west to longitude 140°23'15"E AGD66, south to latitude 27°34'30"S AGD66, west to longitude 140°23'10"E AGD66, south to latitude 27°34'35"S AGD66, west to longitude 140°23'05"E AGD66, south to latitude 27°34'40"S AGD66, west to longitude 140°23'00"E AGD66, south to latitude 27°34'50"S AGD66, west to longitude 140°22'50"E AGD66, south to latitude 27°34'55"S AGD66, west to longitude 140°22'35"E AGD66, south to latitude 27°35'00"S AGD66, west to longitude 140°22'30"E AGD66, south to latitude 27°35'05"S AGD66, west to longitude 140°22'25"E AGD66, south to latitude 27°35'10"S AGD66, west to longitude 140°22'15"E AGD66, north to latitude 27°34'50"S AGD66, east to longitude 140°22'20"E AGD66, north to latitude 27°34'45"S AGD66, east to

longitude 140°22'25"E AGD66, north to latitude 27°34'40"S AGD66, east to longitude 140°22'30"E AGD66, north to latitude 27°33'35"S AGD66, east to longitude 140°22'40"E AGD66, north to latitude 27°33'20"S AGD66, east to longitude 140°22'50"E AGD66, north to latitude 27°33'05"S AGD66, east to longitude 140°23'00"E AGD66, north to latitude 27°32'55"S AGD66, east to longitude 140°23'10"E AGD66, north to latitude 27°32'45"S AGD66, east to longitude 140°23'20"E AGD66 and north to point of commencement.

Area: 6.52 km<sup>2</sup> approximately.

*PPL 182*

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

Commencing at a point being the intersection of latitude 26°48'26"S GDA94 and longitude 140°50'41"E GDA94, thence east to longitude 140°50'54"E GDA94, south to latitude 26°48'30"S AGD66, east to longitude 140°50'55"E AGD66, south to latitude 26°48'40"S AGD66, east to longitude 140°51'01"E GDA94, south to latitude 26°48'43"S GDA94, west to longitude 140°51'00"E GDA94, south to latitude 26°48'50"S GDA94, west to longitude 140°50'58"E GDA94, south to latitude 26°48'52"S GDA94, west to longitude 140°50'55"E GDA94, south to latitude 26°48'54"S GDA94, east to longitude 140°50'57"E GDA94, south to latitude 26°48'56"S GDA94, east to longitude 140°50'59"E GDA94, south to latitude 26°48'58"S GDA94, east to longitude 140°51'00"E GDA94, south to latitude 26°49'01"S GDA94, west to longitude 140°50'54"E GDA94, north to latitude 26°48'56"S GDA94, west to longitude 140°50'48"E GDA94, south to latitude 26°49'02"S GDA94, west to longitude 140°50'38"E GDA94, north to latitude 26°49'00"S GDA94, west to longitude 140°50'36"E GDA94, north to latitude 26°48'57"S GDA94, west to longitude 140°50'34"E GDA94, south to latitude 26°48'55"S GDA94, west to longitude 140°50'32"E GDA94, north to latitude 26°48'53"S GDA94, west to longitude 140°50'30"E GDA94, north to latitude 26°48'40"S GDA94, east to longitude 140°50'32"E GDA94, north to latitude 26°48'37"S GDA94, east to longitude 140°50'34"E GDA94, north to latitude 26°48'35"S GDA94, east to longitude 140°50'38"E GDA94, north to latitude 26°48'32"S GDA94, east to longitude 140°50'39"E GDA94, north to latitude 26°48'29"S GDA94, east to longitude 140°50'41"E GDA94 and north to the point of commencement.

Area: 0.75 km<sup>2</sup> approximately.

*PPL 187*

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

Commencing at a point being the intersection of latitude 27°20'00"S AGD66 and longitude 140°23'10"E AGD66, thence east to longitude 140°24'00"E GDA94, south to latitude 27°20'00"S GDA94, east to longitude 140°24'25"E GDA94, south to latitude 27°20'10"S GDA94, east to longitude 140°24'40"E GDA94, south to latitude 27°21'05"S GDA94, west to longitude 140°24'35"E GDA94, south to latitude 27°21'30"S GDA94, west to longitude 140°24'25"E GDA94, south to latitude 27°21'45"S GDA94, west to longitude 140°24'10"E GDA94, south to latitude 27°21'55"S GDA94, west to longitude 140°24'00"E GDA94, south to latitude 27°22'05"S GDA94, west to longitude 140°23'50"E GDA94, south to latitude 27°22'15"S GDA94, west to longitude 140°22'40"E GDA94, south to latitude 27°22'30"S AGD66, west to longitude 140°22'10"E AGD66, north to latitude 27°21'40"S GDA94, east to longitude 140°22'30"E GDA94, north to latitude 27°21'15"S GDA94, east to longitude 140°22'45"E GDA94, north to latitude 27°21'00"S GDA94, east to longitude 140°22'55"E GDA94, north to latitude 27°20'45"S GDA94, east to longitude 140°23'05"E GDA94, north to latitude 27°20'30"S GDA94, east to longitude 140°23'10"E AGD66 and north to point of commencement.

Area: 12.2 km<sup>2</sup> approximately.

*PPL 194*

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

Commencing at a point being the intersection of latitude 27°14'07"S GDA94 and longitude 140°57'13"E GDA94, thence east to longitude 140°57'23"E GDA94, south to latitude 27°14'10"S GDA94, east to longitude 140°57'31"E GDA94, south to latitude 27°14'13"S GDA94, east to longitude 140°57'40"E GDA94, south to latitude 27°14'26"S GDA94, east to longitude 140°57'43"E GDA94, south to latitude 27°14'36"S GDA94, west to longitude 140°57'37"E GDA94, north to latitude 27°14'30"S GDA94, west to longitude 140°57'20"E GDA94, south to latitude 27°14'35"S GDA94, west to longitude 140°57'05"E GDA94, south to latitude 27°14'40"S GDA94, west to longitude 140°57'00"E GDA94, south to latitude 27°14'43"S GDA94, west to longitude 140°56'40"E GDA94, south to latitude 27°14'45"S GDA94, west to longitude 140°56'10"E AGD66, north to latitude 27°14'30"S GDA94, east to longitude 140°56'23"E GDA94, north to latitude 27°14'23"S GDA94, east to longitude 140°56'25"E GDA94, north to latitude 27°14'20"S GDA94, east to longitude 140°56'28"E GDA94, north to latitude 27°14'17"S GDA94, east to longitude 140°56'44"E GDA94, south to latitude 27°14'35"S GDA94, east to longitude 140°56'53"E GDA94, north to latitude 27°14'22"S GDA94, east to longitude 140°56'56"E GDA94, north to latitude 27°14'12"S GDA94, east to longitude 140°57'10"E GDA94, north to latitude 27°14'10"S GDA94, east to longitude 140°57'13"E GDA94 and north to the point of commencement.

Area: 1.61 km<sup>2</sup> approximately.

Dated 21 July 2009.

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

**Petroleum Act 2000  
S.115**

**MEMORANDUM**

**PETROLEUM PRODUCTION LICENCE  
PPL 194**

- 1 Pursuant to Condition 3 of Petroleum Production Licence PPL 194, the licence area is partially surrendered with effect from 1 January 2009, and is hereby reduced to an area of approximately 1.61 square kilometres.
- 2 Variation of licence area is hereby entered on the public register.
- 3 Revocation of Condition 3 of Petroleum Production Licence PPL 194 is hereby entered on the public register



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

Date: 21 July 2009

Ref: 28/1/242

# Petroleum Act 2000

## PARTIAL SURRENDER AND REVOCATION OF CONDITION

### PETROLEUM PRODUCTION LICENCE PPL 194

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

1. in fulfilment of Condition 3 of PPL 194, hereby accept partial surrender of Petroleum Production Licence PPL 194 pursuant to section 89 of the Act, with effect from 1 January 2009.

The total area of PPL 194 is reduced to 1.61 square kilometres approximately, as a result of partial surrender of the licence area.

Variation of licence area resulting from the partial surrender as per the attached Schedule and Map is hereby entered on the public register.

2. hereby revoke Condition 3 of the licence conditions of PPL 194 pursuant to section 76(3)(b) of the Act, following the fulfilment of the conditions of the Deed dated 12 June 2001, as subsequently amended by Deed to Amend Patchawarra East Area Deeds dated 24 October 2005 and Deed to Amend James Deed dated 30 June 2008.

Date: 21 July 2009



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

3. The following signatures evidence the consent of the licensees to the revocation of Condition 3 of the conditions of PPL 194, pursuant to section 76(3)(b) of the Act.

Executed for and on behalf of:

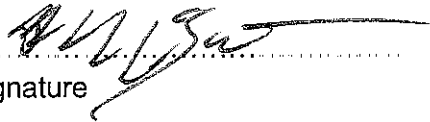
**Santos Ltd**  
**Vamgas Pty Ltd**  
**Santos (NARNL Cooper) Pty Ltd**

by its duly appointed attorney:

**James Leslie Baulderstone**

.....  
Name (print)

.....  
Signature




Signed for and on behalf of **Delhi Petroleum Pty Ltd** by its authorised representative:

**Hector Gordon**  
Director

.....  
**Delhi Petroleum Pty Ltd**

Name (print)

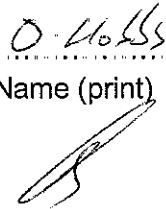
.....  
Signature



Signed for and on behalf of **Origin Energy Resources Ltd** by its ~~authorised~~  
~~representative:~~ *duly appointed attorney:*

.....  
Name (print)

.....  
Signature



# THE SCHEDULE

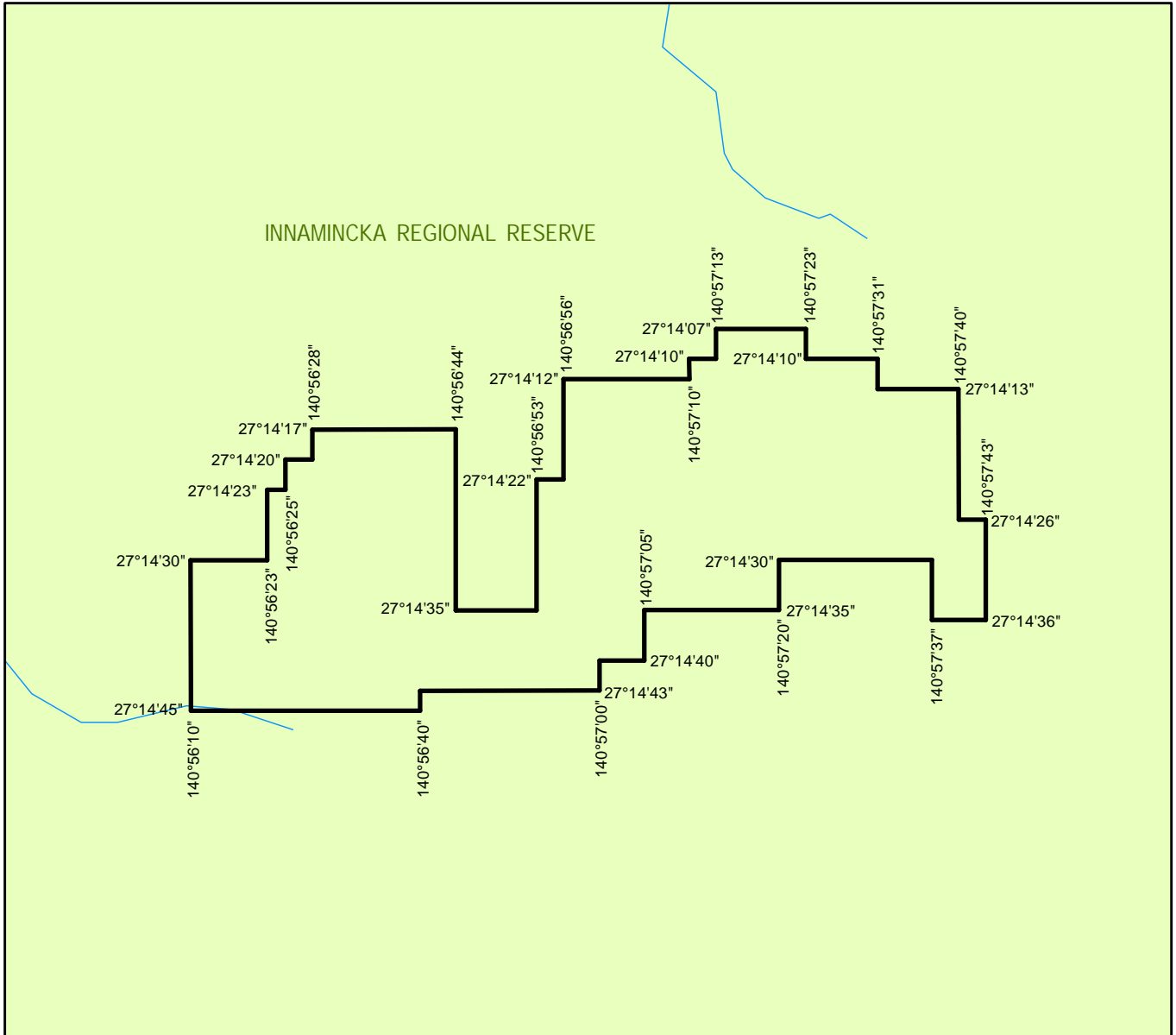
## PETROLEUM PRODUCTION LICENCE PPL 194

### 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°14'07"S GDA94 and longitude 140°57'13"E GDA94, thence east to longitude 140°57'23"E GDA94, south to latitude 27°14'10"S GDA94, east to longitude 140°57'31"E GDA94, south to latitude 27°14'13"S GDA94, east to longitude 140°57'40"E GDA94, south to latitude 27°14'26"S GDA94, east to longitude 140°57'43"E GDA94, south to latitude 27°14'36"S GDA94, west to longitude 140°57'37"E GDA94, north to latitude 27°14'30"S GDA94, west to longitude 140°57'20"E GDA94, south to latitude 27°14'35"S GDA94, west to longitude 140°57'05"E GDA94, south to latitude 27°14'40"S GDA94, west to longitude 140°57'00"E GDA94, south to latitude 27°14'43"S GDA94, west to longitude 140°56'40"E GDA94, south to latitude 27°14'45"S GDA94, west to longitude 140°56'10"E AGD66, north to latitude 27°14'30"S GDA94, east to longitude 140°56'23"E GDA94, north to latitude 27°14'23"S GDA94, east to longitude 140°56'25"E GDA94, north to latitude 27°14'20"S GDA94, east to longitude 140°56'28"E GDA94, north to latitude 27°14'17"S GDA94, east to longitude 140°56'44"E GDA94, south to latitude 27°14'35"S GDA94, east to longitude 140°56'53"E GDA94, north to latitude 27°14'22"S GDA94, east to longitude 140°56'56"E GDA94, north to latitude 27°14'12"S GDA94, east to longitude 140°57'10"E GDA94, north to latitude 27°14'10"S GDA94, east to longitude 140°57'13"E GDA94, and north to the point of commencement.

AREA: **1.61** square kilometres approximately.



SCALE 1:20 000



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), the Geocentric Datum of Australia (GDA94) and the schedule.

THE PLAN HEREINBEFORE REFERRED TO

**REG SPRIGG FIELD**

**PETROLEUM PRODUCTION LICENCE NO: 194**

**Petroleum Act 2000  
S.115**

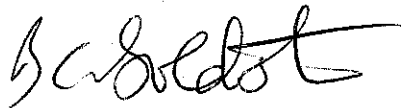
**MEMORANDUM**

**PETROLEUM PRODUCTION LICENCES  
PPL 182, PPL 194**

Deed to Amend James Deed dated 30 June 2008 between the  
Minister for Mineral Resources Development and –

Origin Energy Resources Limited  
Delhi Petroleum Pty Ltd  
Santos (NARNL Cooper) Pty Ltd  
Santos Limited; and  
Vamgas Pty Ltd

is hereby entered on the public register.



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

Date: 3 September 2008

28/01/149  
28/01/242

DATED

30<sup>th</sup>

DAY OF

JUNE

2008

**DEED TO AMEND JAMES DEED**

**BETWEEN**

**MINISTER FOR MINERAL RESOURCES DEVELOPMENT  
("MINISTER")**

**-AND-**

**ORIGIN ENERGY RESOURCES LIMITED  
A.C.N. 007 845 338**

**DELHI PETROLEUM PTY LTD  
A.C.N. 007 854 686**

**SANTOS (NARNL COOPER) PTY LTD  
A.C.N. 004 761 255**

**SANTOS LIMITED  
A.C.N. 80 007 550 923**

**VAMGAS PTY LTD  
A.C.N. 76 006 245 110**

**("LICENSEES")**



**CROWN SOLICITOR**

**Level 9, 45 Pirie Street, Adelaide SA 5000**

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THIS DEED is made the 30<sup>th</sup> day of JUNE 2008

**BETWEEN:**

**MINISTER FOR MINERAL RESOURCES DEVELOPMENT** a body corporate pursuant to the Administrative Arrangements Act, 1994 (SA) and whose office is situated at Level 9, 178 North Terrace, Adelaide 5000 in the State of South Australia. ("Minister")

**AND**

**ORIGIN ENERGY RESOURCES LIMITED** A.C.N. 007 845 338 of Level 45, Australia Square, 264-278 George Street, Sydney, New South Wales 2000, **DELHI PETROLEUM PTY LTD** A.C.N. 007 854 686 of 25 Conyngham Street, Glenside South Australia 5065, **SANTOS (NARNL COOPER) PTY LTD** A.C.N. 004 761 255 (formerly named Novus Australia Resources NL) of Ground Floor, Santos Centre, 60 Flinders Street, Adelaide, South Australia 5000, **SANTOS LIMITED** A.C.N. 007 550 923 of Ground Floor, Santos Centre, 60 Flinders Street, Adelaide, South Australia 5000, **VAMGAS PTY LTD** A B N. 006 245 100 of Ground Floor, Santos Centre, 60 Flinders Street, Adelaide, South Australia 5000 ("Licensees")

**RECITALS:**

- A. By way of a deed dated 12 June 2001, the Parties agreed certain special conditions on Petroleum Production Licences ("PPL") that require that areas greater than twice the proved and probable area of the field, be surrendered by various agreed dates
- B. By way of a deed entitled "Deed to Amend Patchawarra East Area Deeds" dated 24 October 2005 the parties recorded that special conditions as they relate to Petroleum Production Licences referred to in the James Deed were to be extended to 30 June 2008
- C. The parties now wish to record that the James Deed be amended to extend the special conditions as they relate to PPL 182 and 194 to 31 December 2008.

**THE PARTIES COVENANT AS FOLLOWS:**

1. **ACCURACY OF RECITALS**

The Parties agree both that the matters referred to in the recitals of this Deed are true and correct in every material particular and that the recitals shall form part of this Deed.

2. **DEFINITIONS & INTERPRETATION**

2.1 **Definitions**

Subject to any contrary intention indicated by subject or context, for the purpose of the interpretation of this Deed the following terms and expressions are stipulated as having the following meanings:

2.1.1 **“Petroleum Production Licence / PPL”** means either

- (a) a petroleum production licence granted to the Licensees by the Minister pursuant to *Petroleum Act, 1940* and other enabling legislation and continued pursuant to Section 2 of the Schedule to the *Petroleum Act, 2000*, or
- (b) a petroleum production licence granted to the Licensees by the Minister pursuant to the *Petroleum Act, 2000*.

2.1.2 **“Licensee”** means Origin Energy Resources Limited A.C.N. 007 845 338, Delhi Petroleum Pty Ltd A.C.N. 007 854 686, Santos (NARNL Cooper) Pty Ltd A.C.N. 004 761 255, Santos Limited A.B.N. 80 007 550 923, Vamgas Pty Ltd A.B.N. 006 245 100

2.1.3 **“Parties”** means the parties to this Deed.

2.1.4 **“James Deed”** means the deed between the Parties dated 12<sup>th</sup> June 2001 in relation to PPL 182 named James and other PPLs 191, 194 and 197 as amended by the Deed referred to in Recital B.

2.2 **Interpretation**

Subject to any contrary intention indicated by subject or context, the following rules of construction shall be used in the interpretation of this Deed.

2.2.1 Words denoting the singular number or plural number include the plural number and singular number respectively

2.2.2 Words denoting any gender shall include all genders.

2.2.3 Headings are for convenience only and shall not affect interpretation.

2.2.4 Words denoting individuals shall include corporations and vice versa.

2.2.5 A reference to a recital, party, clause, schedule appendix or annexure is a reference to a recital, party, clause, schedule, appendix or annexure of this Deed.

2.2.6 A reference to any Act, regulation or by-law shall be deemed to include all amendments thereto and all statutory provisions substituted hereafter.

2.2.7 The use of "or" shall be that of the inclusive "or", i.e., meaning one, some or all of a number of possibilities or alternatives.

2.2.8 All references to "dollars" or to "\$" are to Australian dollars.

### **3 AMENDMENT TO JAMES DEED**

3.1 The Parties agree to amend the James Deed by deleting the words and figure "30 June 2008" where they appear in Column 4 of the Schedule in respect to PPL 182 and 194 and substituting in their place the words and figures "31 December 2008".

3.2 The provision of this Deed will be read together with and form part of the James Deed.

### **4 COSTS**

The Parties each bear their own legal costs and expenses incurred in respect of the negotiation, preparation and execution of this Deed. Further, the Licensee shall pay any stamp duty assessed in respect of this Deed.

### **5 SUCCESSORS BOUND**

This Deed binds a party's successors, personal representatives and assigns.

### **6 PROPER LAW AND JURISDICTION**

6.1 The laws in force in South Australia apply to this Deed

6.2 The Parties agree to submit to the exclusive jurisdiction of the courts of South Australia in respect of all disputes arising under or relating to this Deed and any proceedings brought in the Federal Court must be instituted in the Adelaide Registry of the Federal Court.

7. **COUNTERPARTS**

This Deed may be executed in any number of counterparts each of which is taken to be an original. All of those counterparts taken together constitute one document.

8. **CONFIRMATION**

Except and to the extent that the James Deed is varied by this Deed the James Deed remains unchanged.

9. **AUDITOR-GENERAL**

Nothing in this Deed derogates from the powers of the Auditor-General under the *Public Finance and Audit Act 1987 (SA)*

**EXECUTED UNCONDITIONALLY AS A DEED**

**THE COMMON SEAL** of the **MINISTER**

**FOR MINERAL RESOURCES**

**DEVELOPMENT** was hereunto affixed by

authority of the Minister in the presence of:

)  
)  
)  
)  
)  
)  
)  
)



.....  
Witness

[Print Name: LEE BITZIOS ]



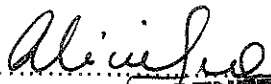
**EXECUTED** for and on behalf of **SANTOS LIMITED,** )

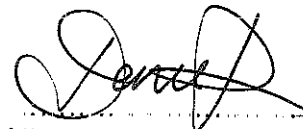
**SANTOS (NARNL COOPER) PTY LTD** and )

**VAMGAS PTY LTD** respectively, )

by being **SIGNED, SEALED AND DELVERED** )

by their duly appointed Attorney in the presence of: )

  
Witness **ALICIA GENET**  
**Corporate Lawyer**

  
Attorney


**Demitra Ritossa**

**EXECUTED** by **DELHI PETROLEUM PTY LTD** )  
in accordance with section 127(1) of the Corporations )  
Act by authority of its Directors: )

  
Signature of Director

Hector Gordon  
Executive Director

Name of Director (block letters)

  
Signature of Director/Company  
Secretary\*

\*delete whichever is not applicable

Cathy Oster  
Company Secretary

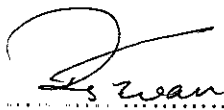
Name of Director/Company  
Secretary\*

\*delete whichever is not applicable

**EXECUTED** by **ORIGIN ENERGY RESOURCES** )  
**LIMITED (ABN 66 007 845 338)** by being **SIGNED** )  
**SEALED AND DELIVERED** by **Ross Stewart Evans** )  
pursuant to a Power of Attorney dated 30 May )  
2008 for which I have received no notice of revocation )  
as at the date hereof )

  
Signature of Witness

Gregory John Herten  
Name of Director (block letters)  
Witness

  
Signature of Attorney

**Ross Stewart Evans**

Name of Attorney

**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 142, 152, 156, 182, 187, 191, 194 and 197.**

1. The following Deed is entered on the Public Register:

Deed to Amend Patchawarra East Area Deeds dated 24<sup>th</sup> October 2005 between the Minister for Mineral Resources Development, Origin Energy Resources Limited, Delhi Petroleum Pty Ltd, Novus Australia Resources NL (now Santos (NARL Cooper) NL), Santos Limited and Vamgas Pty Ltd.



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

Date: 21 December 2005

SR 27/2/4

DATED

24<sup>th</sup>

DAY OF

OCTOBER

2005

**DEED TO AMEND PATCHAWARRA EAST AREA DEEDS**

**BETWEEN**

**MINISTER FOR MINERAL RESOURCES DEVELOPMENT  
("MINISTER")**

**-AND-**

**ORIGIN ENERGY RESOURCES LIMITED  
A.B.N. 66 007 845 338**

**DELHI PETROLEUM PTY LTD  
A.B.N. 65 007 854 686**

**NOVUS AUSTRALIA RESOURCES NL  
A.B.N. 75 004 761 255**

**SANTOS LIMITED  
A.B.N. 80 007 550 923**

**VAMGAS PTY LTD  
A.B.N. 76 006 245 110**

**("LICENSEES")**



**CROWN SOLICITOR**

**Level 9, 45 Pirie Street, Adelaide SA 5000**

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**THIS DEED** is made the

24<sup>th</sup> day of October

2005

**BETWEEN:**

**MINISTER FOR MINERAL RESOURCES DEVELOPMENT** a body corporate pursuant to the Administrative Arrangements Act, 1994 (SA) and whose office is situated at Level 9, 178 North Terrace, Adelaide 5000 in the State of South Australia. ("Minister")

COMMISSIONER OF STATE TAXATION

S.A. STAMP DUTY PAID

ORIGINAL with 0 copies

21/12/2005 14:45:39

DEED

**AND**

**ORIGIN ENERGY RESOURCES LIMITED** A.B.N. 66 007 845 338 of Level 2, South Tower John Oxley Centre, 339 Coronation Drive, Milton Queensland (formally named Boral Energy Resources Ltd), **DELHI PETROLEUM PTY LTD** A.B.N. 65 007 854 686 of c/- Gradav Ltd., 128 Crown Street, East Sydney, NSW, **NOVUS AUSTRALIA RESOURCES NL** A.B.N. 75 004 761 255 of Level 19, 321 Kent Street, Sydney, New South Wales (formerly named Gulf (Aust) Resources No Liability, **SANTOS LIMITED** A.B.N. 80 007 550 923 of Level 29, 91 King William Street, Adelaide, South Australia, **VAMGAS PTY LTD** A.B.N. 006 245 100 of Level 29, 91 King William Street, Adelaide, South Australia ("Licensees")

**RECITALS:**

- A. By way of three deeds between the Parties, one deed dated 23 July 1999 and two deeds dated 12 June 2001, the Parties agreed certain special conditions on Petroleum Production Licences ("PPL") that require that areas greater than twice the proved and probable area of the field, be surrendered by various agreed dates.
- B. Several of the special conditions on Petroleum Production Licences have been met. However, many of the special conditions on Petroleum Production Licences remain unmet.
- C. The parties now wish to record that certain Petroleum Production Licences referred to in the Original Deeds have met the special conditions set out in the Original Deeds and

that other Petroleum Production Licences referred to in the Original Deeds have not met the special conditions set out in the Original Deeds and that the Original Deeds as they relate to the unmet special conditions are to be extended to 30 June 2008.

**THE PARTIES COVENANT AS FOLLOWS:**

**1. ACCURACY OF RECITALS**

The Parties agree both that the matters referred to in the recitals of this Deed are true and correct in every material particular and that the recitals shall form part of this Deed.

**2. DEFINITIONS & INTERPRETATION**

**2.1 Definitions**

Subject to any contrary intention indicated by subject or context, for the purpose of the interpretation of this Deed the following terms and expressions are stipulated as having the following meanings:

2.1.1 **“Petroleum Production Licence / PPL”** means either

- (a) a petroleum production licence granted to the Licensees by the Minister pursuant to *Petroleum Act, 1940* and other enabling legislation and continued pursuant to Section 2 of the Schedule to the *Petroleum Act, 2000*, or
- (b) a petroleum production licence granted to the Licensees by the Minister pursuant to the *Petroleum Act, 2000*.

2.1.2 **“Licensee”** means Origin Energy Resources Limited A.B.N. 66 007 845 338, Delhi Petroleum Pty Ltd A.B.N. 65 007 854 686, Novus Australia Resources NL A.B.N. 75 004 761 255, Santos Limited A.B.N. 80 007 550 923, Vamgas Pty Ltd A.B.N. 006 245 100

2.1.3 **“Parties”** means the parties to this deed.

2.1.4 **“James Deed”** means the deed between the Parties dated 12<sup>th</sup> June 2001 in relation to PPL182 named James and other PPLs 191, 194 and 197.

2.1.5 **“Lamdina Deed”** means the deed between the Parties dated 12<sup>th</sup> June 2001 in relation to PPL187 named Lamdina.

---

2.1.6 **“Patchawarra East Deed”** means the deed between the Parties dated 23 July 1999 in relation to PPLs 156, 142, 152 in an area named Patchawarra East;

2.1.7 **“Original Deeds”** means the James Deed, the Patchawarra East Deed and the Lamdina Deed.

## 2.2 **Interpretation**

Subject to any contrary intention indicated by subject or context, the following rules of construction shall be used in the interpretation of this Deed.

2.2.1 Words denoting the singular number or plural number include the plural number and singular number respectively.

2.2.2 Words denoting any gender shall include all genders.

2.2.3 Headings are for convenience only and shall not affect interpretation.

2.2.4 Words denoting individuals shall include corporations and vice versa.

2.2.5 A reference to a recital, party, clause, schedule appendix or annexure is a reference to a recital, party, clause, schedule, appendix or annexure of this Deed.

2.2.6 A reference to any Act, regulation or by-law shall be deemed to include all amendments thereto and all statutory provisions substituted hereafter.

2.2.7 The use of "or" shall be that of the inclusive "or", i.e., meaning one, some or all of a number of possibilities or alternatives.

2.2.8 All references to "dollars" or to "\$" are to Australian dollars.

## 3. **AMENDMENT TO JAMES DEED**

3.1 The Parties agree to amend the James Deed by deleting the words and figure “5 years from grant” where they appear in Column 4 of the Schedule and substituting in their place the words and figures “30 June 2008”.

3.2 The provision of this Deed will be read together with and form part of the James Deed.

---

**4. AMENDMENT TO LAMDINA DEED**

- 4.1 The Parties agree to amend the Lamdina Deed by deleting the words and figure “5 years from grant” where they appear in Column 4 of the Schedule to that Deed and in their place substituting the words and figures “30 June 2008”.
- 4.2 The provisions of this Deed will be read together with and form part of the Lamdina Deed.

**5. AMENDMENT TO PATCHAWARRA EAST DEED**

- 5.1 The Parties agree to amend the Patchawarra Deed by deleting the words and figure “5 years from Grant” where they appear in the third line of Column 4 of the Schedule to that Deed and in their place substituting the words and figures “30 June 2008”.
- 5.2 The Parties agree that PPLs 152 and 156 referred to in the Patchawarra East Deed have met the special conditions set out in that deed.
- 5.3 The provisions of this Deed will be read together with and form part of the Patchawarra East Deed.

**6. COSTS**

The Parties each bear their own legal costs and expenses incurred in respect of the negotiation, preparation and execution of this Deed. Further, the Licensee shall pay any stamp duty assessed in respect of this Deed.

**7. SUCCESSORS BOUND**

This Deed binds a party’s successors, personal representatives and assigns.

**8. PROPER LAW AND JURISDICTION**

- 8.1 The laws in force in South Australia apply to this Deed.
- 8.2 The Parties agree to submit to the exclusive jurisdiction of the courts of South Australia in respect of all disputes arising under or relating to this Deed and any proceedings brought in the Federal Court must be instituted in the Adelaide Registry of the Federal Court.
-

**9. COUNTERPARTS**

This Deed may be executed in any number of counterparts each of which is taken to be an original. All of those counterparts taken together constitute one document.

**10. ORIGINAL DEEDS**

Except and to the extent that the Original Deeds are varied by this Deed the Original Deeds remain unchanged.

**EXECUTED UNCONDITIONALLY AS A DEED**

**THE COMMON SEAL** of the **MINISTER**  
**FOR MINERAL RESOURCES**  
**DEVELOPMENT** was hereunto affixed by  
authority of the Minister in the presence of:



*Paul Holloway*

.....  
Witness  
Print Name: *LEE BITZIOS*

Executed for and on behalf of **SANTOS LIMITED,**  
and **VAMGAS PTY LTD** respectively by being **SIGNED,**  
**SEALED AND DELVERED** by its duly appointed  
Attorney in the presence of:

*[Signature]*

.....  
Witness  
Print Name: *DIANE GIBSON*

~~**EXECUTED** for and on behalf of **DELHI**  
**PETROLEUM PTY LTD** by its duly~~

authorised attorney in the presence of: )

.....  
Signature of Witness

.....  
Signature of Attorney

.....  
Name of Witness

.....  
Name of Attorney

**THE COMMON SEAL of NOVUS AUSTRALIA** )

**RESOURCES N.L.** was hereunto affixed in accordance )

its constitution in the presence of: )

.....  
Director

Print Name:.....

*Peter C Wasow*  
.....  
PETER C WASOW



.....  
Secretary

Print Name:.....

*Robert James Wishart*  
.....  
**ROBERT JAMES WISHART**

**THE COMMON SEAL of ORIGIN ENERGY** )

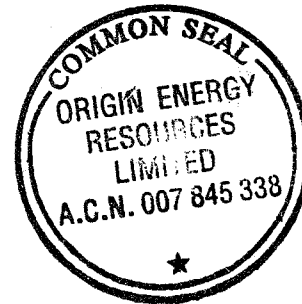
**RESOURCES LTD** was hereunto affixed in the presence )

of: )

.....  
Director

Print Name:.....

*Robert Jan Willink*  
.....  
DIRECTOR  
**ROBERT JAN WILLINK**



.....  
Secretary

Print Name:.....

*Bruce John Atkinson*  
.....  
**Bruce John Atkinson**

**DPPL**

**EXECUTED** by **DELHI** )  
**PETROLEUM PTY LTD** in )  
Accordance with section 127(1) of the )  
Corporations Act by authority of its )  
Directors: )

*[Handwritten Signature]* )  
..... )  
Signature of director )

*[Handwritten Name]* )  
..... )  
Name of director (block letters) )

*[Handwritten Signature]* )  
..... )  
Signature of ~~director~~ company )  
secretary\* )  
\*delete whichever is not applicable

*[Handwritten Name]* )  
..... )  
Name of ~~director~~/company secretary\* )  
\*delete whichever is not applicable

**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**



502306042

21 June 2001]

## THE SOUTH AUSTRALIAN GOVERNMENT GAZETTE

PETROLEUM ACT 2000  
Grant of Production Licences

Office of Minerals and Energy Resources Adelaide, 15 June 2001

NOTICE is hereby given that pursuant to delegated powers dated 25 September 2000, *Gazetted* 28 September 2000, page 2289, the undermentioned Production Licences have been granted under the provisions of the Petroleum Act 2000.

T. AUST, Acting Director, Petroleum Group, Delegate of the Minister for Minerals and Energy

No. of Licence	Licensees	Locality	Date Effective From
179, 195	Santos Ltd Delhi Petroleum Pty Ltd Origin Energy Resources Ltd Vamgas Pty Ltd Novus Australia Resources NL Alliance Petroleum Australia Pty Ltd Reef Oil Pty Ltd Santos Petroleum Pty Ltd Bridge Oil Developments Pty Ltd Santos (BOL) Pty Ltd Basin Oil Pty Ltd	Fortanna and Scrubby Creek Fields in the Cooper Basin of South Australia	15 June 2001
194	Santos Ltd Delhi Petroleum Pty Ltd Origin Energy Resources Ltd Vamgas Pty Ltd Novus (Australia) Resources NL	Reg Sprigg Field in the Cooper Basin of South Australia	15 June 2001

PL 179:

*Description of the Area*

All that part of the State of South Australia bounded as follows: Commencing at a point being the intersection of latitude 28°22'40"S AGD66 and longitude 140°05'00"E AGD66, thence east to longitude 140°05'50"E AGD66, south to latitude 28°22'50"S AGD66, east to longitude 140°06'00"E AGD66, south to latitude 28°23'10"S AGD66, west to longitude 140°05'55"E AGD66, south to latitude 28°23'15"S AGD66, west to longitude 140°05'50"E AGD66, south to latitude 28°23'25"S AGD66, west to longitude 140°05'45"E AGD66, south to latitude 28°23'35"S AGD66, east to longitude 140°05'55"E AGD66, south to latitude 28°24'00"S AGD66, west to longitude 140°05'45"E AGD66, south to latitude 28°24'20"S AGD66, west to longitude 140°05'35"E AGD66, south to latitude 28°24'25"S AGD66, west to longitude 140°05'30"E AGD66, south to latitude 28°24'35"S AGD66, west to longitude 140°05'25"E AGD66, south to latitude 28°24'40"S AGD66, west to longitude 140°04'50"E AGD66, north to latitude 28°23'50"S AGD66, west to longitude 140°04'40"E AGD66, north to latitude 28°23'05"S AGD66, east to longitude 140°04'55"E AGD66, north to latitude 28°22'55"S AGD66, east to longitude 140°05'00"E AGD66, and north to the point of commencement.

Area: 6.07 km<sup>2</sup> approximately.

PL 194:

*Description of the Area*

All that part of the State of South Australia bounded as follows: Commencing at a point being the intersection of latitude 27°13'30"S AGD66 and longitude 140°56'30"E AGD66, thence east to longitude 140°57'00"E AGD66, south to latitude 27°13'40"S AGD66, east to longitude 140°57'30"E AGD66, south to latitude 27°13'50"S AGD66, east to longitude 140°57'40"E AGD66, south to latitude 27°14'00"S AGD66, east to longitude 140°58'00"E AGD66, south to latitude 27°14'30"S AGD66, west to longitude 140°57'50"E AGD66, south to latitude 27°14'40"S AGD66, west to longitude 140°57'40"E AGD66, south to latitude 27°14'50"S AGD66, west to longitude 140°57'10"E AGD66, south to latitude 27°15'00"S Clarke 1858, west to longitude 140°56'10"E AGD66, north to latitude 27°14'20"S AGD66, east to longitude 140°56'20"E AGD66, north to latitude 27°14'00"S AGD66, east to longitude 140°56'30"E AGD66, and north to the point of commencement.

Area: 5.99 km<sup>2</sup> approximately.

PL 195:

*Description of the Area*

All that part of the State of South Australia bounded as follows: Commencing at a point being the intersection of latitude 27°32'15"S AGD66 and longitude 140°24'50"E AGD66, thence east to longitude 140°25'05"E AGD66, south to latitude 27°32'30"S AGD66, west to longitude 140°24'50"E AGD66, south to latitude 27°32'40"S AGD66, west to longitude 140°24'30"E AGD66, south to latitude 27°32'50"S AGD66, west to longitude 140°24'20"E AGD66, south to latitude 27°33'00"S AGD66, west to longitude 140°24'10"E AGD66, south to latitude 27°33'10"S AGD66, west to longitude 140°24'00"E AGD66, south to latitude 27°33'20"S AGD66, west to longitude 140°23'50"E AGD66, south to latitude 27°33'35"S AGD66, west to longitude 140°23'45"E AGD66, south to latitude 27°33'50"S AGD66, west to longitude 140°23'40"E AGD66, south to latitude 27°33'55"S AGD66, west to longitude 140°23'35"E AGD66, south to latitude 27°34'00"S AGD66, west to longitude 140°23'30"E AGD66, south to latitude 27°34'10"S AGD66, west to longitude 140°23'25"E AGD66, south to latitude 27°34'20"S AGD66, west to longitude 140°23'20"E AGD66, south to latitude 27°34'25"S AGD66, west to longitude 140°23'15"E AGD66, south to latitude 27°34'30"S AGD66, west to longitude 140°23'10"E AGD66, south to latitude 27°34'35"S AGD66, west to longitude 140°23'05"E AGD66, south to latitude 27°34'40"S AGD66, west to longitude 140°23'00"E AGD66, south to latitude 27°34'50"S AGD66, west to longitude 140°22'50"E AGD66, south to latitude 27°34'55"S AGD66, west to longitude 140°22'35"E AGD66, south to latitude 27°35'00"S AGD66, west to longitude 140°22'30"E AGD66, south to latitude 27°35'05"S AGD66, west to longitude 140°22'25"E AGD66, south to latitude 27°35'10"S AGD66, west to longitude 140°22'15"E AGD66, north to latitude 27°34'50"S AGD66, east to longitude 140°22'20"E AGD66, north to latitude 27°34'45"S AGD66, east to longitude 140°22'25"E AGD66, north to latitude 27°34'40"S AGD66, east to longitude 140°22'30"E AGD66, north to latitude 27°33'35"S AGD66, east to longitude 140°22'40"E AGD66, north to latitude 27°33'20"S AGD66, east to longitude 140°22'50"E AGD66, north to latitude 27°33'05"S AGD66, east to longitude 140°23'00"E AGD66, north to latitude 27°32'55"S AGD66, east to longitude 140°23'10"E AGD66, north to latitude 27°32'45"S AGD66, east to longitude 140°23'20"E AGD66, north to latitude 27°32'40"S AGD66, east to longitude 140°23'40"E AGD66, north to latitude 27°32'50"S AGD66, east to longitude 140°24'05"E AGD66, north to latitude 27°32'45"S AGD66, east to longitude 140°24'10"E AGD66, north to latitude 27°32'35"S AGD66, east to longitude 140°24'30"E AGD66, north to latitude 27°32'25"S AGD66, east to longitude 140°24'40"E AGD66, north to latitude 27°32'20"S AGD66, east to longitude 140°24'50"E AGD66 and north to the point of commencement.

Area: 7.57 km<sup>2</sup> approximately.



SR 28/1/242

## MEMORANDUM

### PRODUCTION LICENCE NO. 194

1. This licence granted on *15 June 2001* 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 are as follows:

	%
• Santos Ltd	25.6022
• Delhi Petroleum Pty Ltd	17.1430
• Vamgas Pty Ltd	43.7500
• Origin Energy Resources Limited	10.5360
• Novus Australia Resources NL	2.9688

.....  
T AUST  
ACTING DIRECTOR PETROLEUM  
Delegate of the Minister for Minerals  
and Energy

**SOUTH AUSTRALIA  
PETROLEUM ACT 2000**

**PRODUCTION LICENCE NO. 194**

I, **ROBERT ANTHONY LAWS**, Director Petroleum, Office of Minerals and Energy Resources, Department of Primary Industries and Resources in the State of South Australia pursuant to the provisions of the *Petroleum Act, 2000* and all other enabling powers for and on behalf of Wayne Anthony Matthew, Minister for Minerals and Energy (Minister) pursuant to delegation dated 25 September 2000 (refer Government Gazette dated 28 September 2000), **HEREBY GRANT JOINTLY TO :-**

- **SANTOS LIMITED**, ABN 80 007 550 923 of Level 29, 91 King William Street, Adelaide, South Australia,
- **DELHI PETROLEUM PTY LTD**, ABN 65 007 854 686 of 12 Riverside Quay, Southbank, Victoria,
- **VAMGAS PTY LTD**, ABN 76 006 245 110 of Level 29, 91 King William Street, Adelaide, South Australia,
- **ORIGIN ENERGY RESOURCES LIMITED**, ABN 66 007 845 338 of Level 12, 1 King William Street, Adelaide, and
- **NOVUS AUSTRALIA RESOURCES NO LIABILITY**, ABN 75 004 761 255 of Level 9, 321 Kent Street, Sydney, New South Wales.

COMMISSIONER OF STATE TAXATION  
S.A. STAMP DUTY PAID \$10.00  
ADJUDGED DULY STAMPED  
ORIGINAL WITH 4 COPIES  
25/06/2001 13:59:36 00839304.1  
DEED

(herein after referred to as the 'Licensees') a Production Licence, in relation to all regulated resources except a source of geothermal energy and in respect of the area described below and subject to the conditions set out below, to have effect from the **15th** day of **June** 2001.

**DESCRIPTION OF THE AREA**

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

**TERMS AND CONDITIONS**

By agreement between the Minister and the Producers pursuant to the provisions of the *Petroleum Act 2000* the following terms and conditions apply to this Licence.

1. **Payment of Fees and Royalty**  
The Licensees hereby covenant with the Minister that they will make payment of the annual fee and royalty provided under the *Petroleum Act 2000* and comply with the provisions of the *Petroleum Act 2000* and with all Regulations for the time being in force under that Act and with any directions given by the Minister or any other person pursuant to that Act or the said Regulations.

2. **Joint interests**

It is hereby acknowledged and agreed that the Licensees own and hold the following undivided interests respectively in and under this Licence:-

<b>Santos</b>	:	twenty five point six zero two two	(25.6022%)
<b>Delhi</b>	:	seventeen point one four three	(17.143%)
<b>Origin Energy</b>	:	ten point five three six	(10.536%)
<b>Vamgas</b>	:	forty three point seven five	(43.75%)
<b>Novus</b>	:	two point nine six eight eight	(2.9688%)

**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 *Petroleum Act 2000*) 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 8th day of April 1974 which the Licensees are parties and as the same has been amended and as may hereafter be amended from time to time.

3. The Licensees shall comply with its obligations under the Deed dated *12 June 2001* between the Minister for Minerals and Energy and Santos Limited, Delhi Petroleum Pty Ltd, Origin Energy Resources Limited, Vamgas Pty Ltd, Novus Australia Resources NL.

**SIGNED** by the **DIRECTOR PETROLEUM, DEPARTMENT OF PRIMARY INDUSTRIES AND RESOURCES** at Adelaide

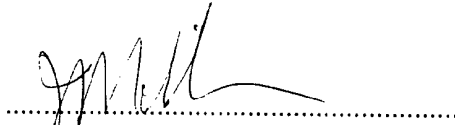
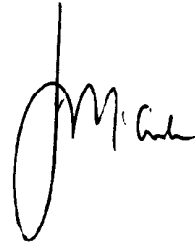
this .....*15<sup>th</sup>*..... day of .....*June*.....2001



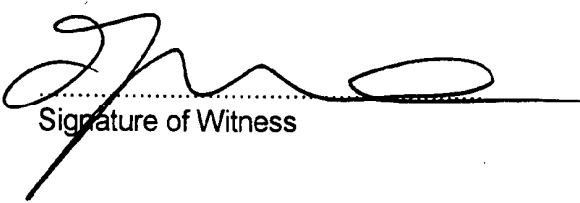
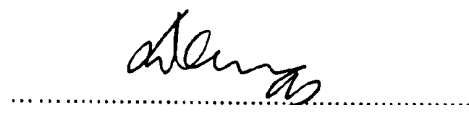
*for* **Terence Aust, Acting Director**  
 Robert Anthony Laws  
 Director Petroleum  
 Office of Minerals and Energy Resources  
 Department of Primary Industries and Resources  
 Delegate of the Minister for Minerals and Energy

**SIGNED, SEALED AND DELIVERED** )  
by the said **LICENSEES** at *Adelaide* )  
this *1st* day of *June* 2001 )

Executed on behalf of **SANTOS LIMITED** )  
and **VAMGAS PTY LTD**, respectively )  
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 affecting such )  
appointment, in the presence of: )

  
.....  
(Witness)

**EXECUTED** for and on behalf of )  
**DELHI PETROLEUM PTY LTD** )  
by its duly authorised attorney )  
in the presence of: )

  
.....  
Signature of Witness  
.....  
Signature of Attorney

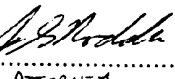
**Marie-Anne Rustichelli**  
.....  
Name of Witness

**IAN WILLIAM ANGUS**  
.....  
Name of Attorney

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

(Director)

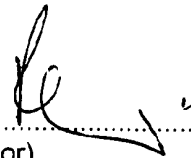
Signed for and on behalf of **ORIGIN ENERGY RESOURCES** )  
**LIMITED** by John Stephen Rodda, its Attorney pursuant to Power )  
of Attorney dated 5 March 2001, the Attorney declares that the )  
Attorney has not received any notice of revocation of such Power )  
of Attorney, in the presence of: )

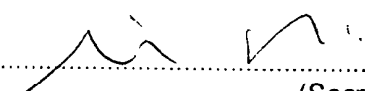
  
.....  
ATTORNEY (Secretary)  
**JOHN S RODDA**  
PRINT NAME 3

*Danese*  
.....  
Witness **T DANESE**  
PRINT NAME



**THE COMMON SEAL** of **NOVUS AUSTRALIA** )  
**RESOURCES NL** was hereunto affixed in )  
the presence of:

  
.....  
(Director)

  
.....  
(Secretary)  
Director

## SCHEDULE

### PRODUCTION LICENCE NO. 194

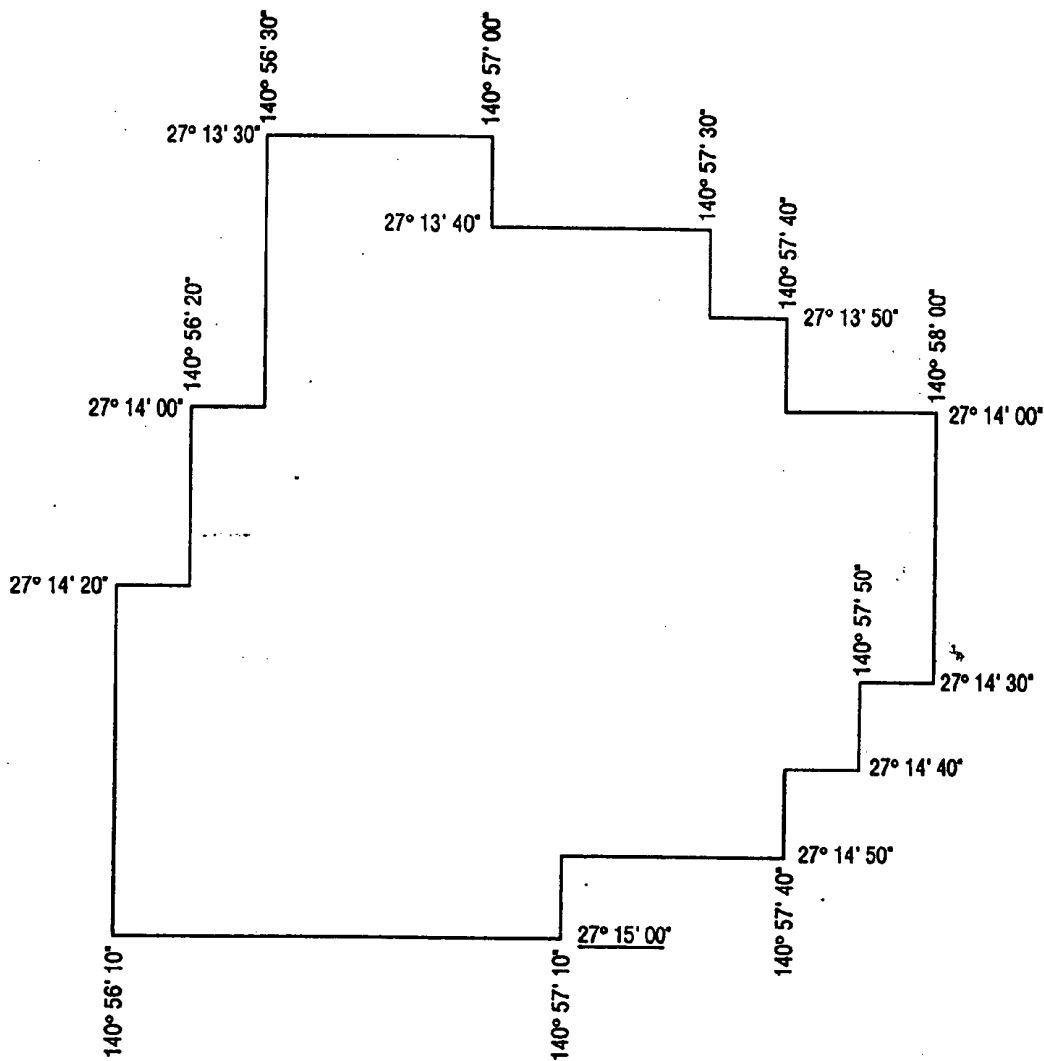
#### REG SPRIGG FIELD

#### DESCRIPTION OF AREA

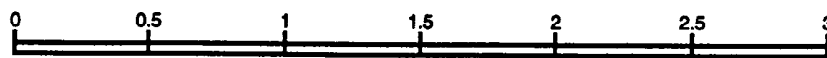
All that part of the State of South Australia, bounded as follows:-

Commencing at a point being the intersection of latitude 27°13'30"S AGD66 and longitude 140°56'30"E AGD66, thence east to longitude 140°57'00"E AGD66, south to latitude 27°13'40"S AGD66, east to longitude 140°57'30"E AGD66, south to latitude 27°13'50"S AGD66, east to longitude 140°57'40"E AGD66, south to latitude 27°14'00"S AGD66, east to longitude 140°58'00"E AGD66, south to latitude 27°14'30"S AGD66, west to longitude 140°57'50"E AGD66, south to latitude 27°14'40"S AGD66, west to longitude 140°57'40"E AGD66, south to latitude 27°14'50"S AGD66, west to longitude 140°57'10"E AGD66, south to latitude 27°15'00"S Clarke 1858, west to longitude 140°56'10"E AGD66, north to latitude 27°14'20"S AGD66, east to longitude 140°56'20"E AGD66, north to latitude 27°14'00"S AGD66, east to longitude 140°56'30"E AGD66, and north to the point of commencement.

AREA: 5.99 square kilometres approximately.



SCALE 1 : 25 000



KILOMETRES

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

## REG SPRIGG FIELD

### PRODUCTION LICENCE NO. 194



DATED *twelfth* DAY OF *June* 2001

**DEED**

**BETWEEN**

**MINISTER FOR MINERALS AND ENERGY  
("MINISTER")**

**AND**

**ORIGIN ENERGY RESOURCES LIMITED  
A.B.N. 66 007 845 338**

**DELHI PETROLEUM PTY LTD  
A.B.N. 65 007 854 686**

**NOVUS AUSTRALIA RESOURCES NL  
A.B.N. 75 004 761 255**

**SANTOS LIMITED  
A.B.N. 80 007 550 923**

**VAMGAS PTY LTD  
A.B.N. 76 006 245 110**

**("LICENCEES")**



502306033

THIS DEED is dated the *twelfth* day of *June* 2001

**BETWEEN:**

MINISTER FOR MINERALS AND ENERGY a body corporate pursuant to the Administrative Arrangements Act, 1994 (SA) and whose office is situated at 12<sup>th</sup> Floor, 211 Victoria Square, Adelaide, 5000 in the State of South Australia (**Minister**)

COMMISSIONER OF STATE TAXATION

S.A. STAMP DUTY PAID \$10.00  
ADJUDGED DULY STAMPED  
ORIGINAL with 1 copies  
25/06/2001 13:57:41 00659317.1  
DEED

**AND**

ORIGIN ENERGY RESOURCES LIMITED A.B.N. <sup>66</sup>007 845 338 of Level 6, 1 King William Street, Adelaide, South Australia, DELHI PETROLEUM PTY LTD A.B.N. 65 007 854 686 ~~of Esso Australia Ltd., Esso House, 12 Riverside Quay, Southbank, Victoria, NOVUS AUSTRALIA RESOURCES NL~~ A.B.N. 75 004 761 255 of Level 19, 321 Kent Street, Sydney, New South Wales, SANTOS LIMITED A.B.N. 80 007 550 923 of Level 29, 91 King William Street, Adelaide, South Australia, VAMGAS PTY LTD A.B.N. 006 245 <sup>110</sup>~~400~~ of Level 29, 91 King William Street, Adelaide, South Australia ("**Licensees**").

**OPERATIVE PROVISIONS**

1. Pursuant to the Minister's offer to grant the production licence identified in the attached schedule (a "Licence") to the Licensees, the Licensees hereby agree and undertake to:

1.1 make application to the Minister to surrender such part (if any) of the licensed area ("Surrendered Areas") on or before the date specified for the Licence in the fourth column of the schedule so that the remaining area of the Licence is no greater than the combined total of:

(a) the area under which proved and probable reserves of petroleum occur including areas under which proved and probable reserves of petroleum can be demonstrated to have occurred prior to the initiation of production from the field; and

(b) surrounding land identified by the Licensees equal in size to the area mentioned in 1.1(a);

1.2 surrender the least number of separate areas where technically appropriate and with regard to good petroleum field practice and defined by parallels of latitude and meridians longitude expressed in the Geocentric Datum of Australia (GDA), 1994.

2. The Parties (which in this Deed shall mean the Minister and each of the Licensees) agree that the Licensees will have no right to retain title over the Surrendered Areas as a retention licence under any legislation which allows for such licences.
3. If the Minister following a technical review with the Licensees forms the view that the area or areas identified by the Licensees under 1.1(a) is or are not technically justified having regard to the matters referred to at 3.1 and 3.2, the Parties agree to appoint a suitably qualified expert (whose decision shall be final and binding), the costs of whom shall be borne equally between the Minister on the one hand and the Licensees on the other, to determine such area or areas. In the event the Parties fail to agree on the appointment of a suitably qualified expert, the expert shall be appointed by the President of the Society of Petroleum Engineers or his or her nominee. The expert shall, in making his determination, have regard to:
  - 3.1 the 1997 SPE/WPC Reserve Definitions; and
  - 3.2 PIRSA's "Department of Mines and Energy, South Australia Report Book 91/96".
4. This Deed may not be amended or varied except by the written agreement of all Parties.
5. This Deed may be executed in any number of counterparts each of which is taken to be an original. All of those counterparts taken together constitute one instrument.

6. This Deed shall be governed and construed in all respects in accordance with the laws of South Australia and the Parties agree to submit to the exclusive jurisdiction of the courts of South Australia in respect of all disputes arising under or relating to this Deed.

**EXECUTED AS A DEED**

**THE COMMON SEAL** of the **MINISTER FOR MINERALS AND ENERGY** was hereunto affixed in the presence of:



*Wayne Anthony Matthew*  
.....  
The Honourable Wayne Anthony Matthew MP  
Minister for Minerals and Energy

*Paige Hayward*  
.....  
Witness  
Print Name: PAIGE HAYWARD

**SIGNED, SEALED AND DELIVERED** by the said **LICENSEES** at Adelaide this 1st day of June 2001

Executed on behalf of **SANTOS LIMITED** and **VAMGAS PTY LTD** respectively 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:

*Jan Miller*  
.....  
Witness  
Print Name: JAN MILLER

*Jan Miller*

**THE COMMON SEAL** of the **ORIGIN ENERGY RESOURCES LTD** was hereunto affixed in the presence of:

*J. Rodda*  
Director ~~Attorney~~ Signed for and on behalf of **ORIGIN ENERGY RESOURCES LIMITED** by John Stephen Rodda, its Attorney pursuant to Power of Attorney dated 5 March 2001, the Attorney declares that the Attorney has not received any notice of revocation of such Power of Attorney, in the presence of:

*T. Danese*  
Witness  
~~Secretary~~  
Print Name: T Danese

**EXECUTED** for and on behalf of **DELHI PETROLEUM PTY LTD** by its duly authorised attorney in the presence of:

*Marie-Anne Rusticelli*  
Signature of Witness  
Marie-Anne Rusticelli  
Name of Witness

*I. William Angus*  
Signature of Attorney  
IAN WILLIAM ANGUS  
Name of Attorney

**THE COMMON SEAL** of **NOVUS AUSTRALIA RESOURCES N.L.** was hereunto affixed in accordance with its constitution in the presence of:

*K. C. Williams*  
Director  
Print Name: KONGUET C. WILLIAMS

*M. S. Andy*  
Secretary ~~Director~~  
Print Name: M. S. ANDY





### THE SCHEDULE

PL NUMBER	PL NAME	AREA OF LICENCE (Km <sup>2</sup> )	DATE
COLUMN 1	COLUMN 2	COLUMN 3	COLUMN 4
182	James	2.76	5 years from grant
191	Moondie	10.36	5 years from grant
194	Reg Sprigg	5.99	5 years from grant
197	Tirra/Moor/Wool (East)	3.03	5 years from grant

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