INDEX OF DOCUMENTS HELD ON THE PUBLIC REGISTER FOR PPL 54

   Expiry:  15 June 2010

   Interests in the Licence:
   - Santos Limited      45%
   - Delhi Petroleum Pty Ltd      27%
   - Vamgas Ltd       14%
   - SAGASCO Resources Limited     9%
   - Hartogen Energy Limited      5%

2. 16 June 1989  Memorandum entering licence on the public register and notating receipt of security.


5. 17 March 1994  Memorandum dated 17 March 1994 consenting to the transfer as contained in the following documentation:
   - Deed of Assignment and Transfer dated 20 December 1993 between Santos Ltd and Crusader Resources NL.

6. 15 April 1994  Memorandum entering the following documents on the public register:
   - Deed of Consent and Assumption dated 9 March 1994 between the Unit Agreement parties and 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;
   - 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;
   - 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;
   - Covenant and Acknowledgment from Santos Ltd and Crusader Resources NL to Basin Oil NL dated 8 March 1994.
7. 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.

   From: Vamgas Ltd
   To: Vamgas Pty Ltd

9. 24 July 1995 Memorandum entering change of company name on public register

10. 5 September 1995 Certificate of Registration on Change of Name dated 1 September 1995:
   From: SAGASCO Resources Ltd
   To: Boral Energy Resources Ltd.

11. 5 September 1995 Memorandum entering change of company name on the Public Register

12. 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.

13. 30 June 1997 Certificate of Registration on Change of Name dated 12 June 1997:
   From: Crusader Resources NL
   To: Gulf (Aust) Resources NL

14. 30 June 1997 Memorandum entering change of company name on the Public Register.
15. 10 December 1999  Certificate of Registration on Change of Name dated 6 October 1999:
   From: Gulf (Aust) Resources NL
   To: Novus Australia Resources NL

16. 10 December 1999  Memorandum entering change of company name on the Public Register.

17. 13 March 2000  Certificate of Registration on Change of Name dated 24 February 2000:
   From: Boral Energy Resources
   To: Origin Energy Resources Ltd

18. 13 March 2000  Memorandum entering change of company name on the Public Register.

19. 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

20. 15 October 2002  Memorandum entering change of company name on the Public Register.

21. 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.

22. 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

23. 23 November 2005  Notation of discharge of security and receipt of replacement security is entered on the public register.

24. 13 January 2006  Certificate of Registration on Change of Name dated 29 June 2005:
   From: Novus Australia Resources NL
   To: Santos (NARNL Cooper) NL

25. 13 January 2006  Memorandum entering change of company name on the Public Register.

26. 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.

27. 9 May 2006  Memorandum entering change of company name on the Public Register

29. 24 May 2010 Memorandum entering renewal on public register

30. 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

31. 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

32. 9 August 2017 Certificate of Registration on Change of Company Name dated 29 June 2017.

From: Origin Energy Resources Limited
To: Lattice Energy Limited

33. 9 August 2017 Memorandum entering notation of change of company name on the public register.

34. 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

35. 22 January 2020 Certificate of Registration on Change of Name dated 2 December 2019.

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

36. 22 January 2020 Memorandum entering notation of change of company name on the public register.
MEMORANDUM

PETROLEUM PRODUCTION LICENCES

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
MEMORANDUM

PETROLEUM PRODUCTION LICENCES

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
MEMORANDUM

PETROLEUM RETENTION LICENCE
PRL 106

PETROLEUM EXPLORATION LICENCES
PELs 637 and 638

PETROLEUM PRODUCTION LICENCES

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. GOLDSMITH]
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
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. GOLDSMITH  
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
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
MEMORANDUM

RENEWAL OF
PETROLEUM PRODUCTION LICENCE
PPL 54

1. Renewal of this licence, effective from 16 June 2010 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: 24 May 2010

File: 28/1/140
Petroleum and Geothermal Energy Act 2000
Cooper Basin (Ratification) Act 1975

Renewal of
PETROLEUM PRODUCTION LICENCE No. 54

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 and Geothermal Energy Act 2000, the Cooper Basin (Ratification) Act 1975 and all other enabling powers for and on behalf of Paul Holloway, Minister for Mineral Resources Development (Minister), pursuant to delegated powers, hereby renew Petroleum Production Licence PPL 54, held by:

Santos Limited           ACN 007 550 923
Vangas Pty Ltd           ACN 006 245 110
Alliance Petroleum Australia Pty Ltd ACN 004 559 951
Reef Oil Pty Ltd         ACN 000 646 800
Santos Petroleum Pty Ltd ACN 000 146 369
Bridge Oil Developments Pty Ltd ACN 001 152 049
Santos (BOL) Pty Ltd     ACN 000 670 575
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, to have effect from 16 June 2010.

DESCRIPTION OF AREA

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

TERMS AND CONDITIONS

1. Scope of Rights

For the avoidance of doubt:

(a) In addition to all operations authorised by a Production Licence granted under the Petroleum and Geothermal Energy Act 2000 in relation to all regulated resources except a source of geothermal energy, the Licensee is authorised under this Licence to conduct all operations authorised by Petroleum Production Licence No. 54, pursuant to section 33 of the Petroleum Act 1940 immediately prior to commencement of the Petroleum and Geothermal Energy Act 2000; and

(b) Nothing in this Licence affects the rights of the Licensee pursuant to the Cooper Basin (Ratification) Act 1975.
2. Security

2.1 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').

2.2 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.

2.3 Interest will not be payable by the Minister to the Licensee on any cash Security.

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

2.5 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.

3. Insurance

3.1 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).

3.2 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.
4. 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.

Date: 24 May 2010

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

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

by its duly appointed attorney:

[Signature]

James Leslie Baulderstone

[Signature]

14-5-2010

Date

Executed by Delhi Petroleum Pty Ltd in accordance with section 127(1) of the Corporations Act by authority of its Directors:

Hector Gordon
Executive Director

[Signature]

28.4.10

Date

Cathy Oster
Company Secretary

Executed for and on behalf of Origin Energy Resources Ltd by its duly appointed attorney:

Owen Hobbs
Eastern Australia Onshore Asset Manager

[Signature]

06.05.10

Date
SCHEDULE
PETROLEUM PRODUCTION LICENCE
PPL 54
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°14'30"S AGD66 and longitude 139°46'38"E AGD66, thence east to longitude 139°46'46"E AGD66, south to latitude 28°14'38"S AGD66, west to longitude 139°46'44"E AGD66, south to latitude 28°14'48"S AGD66, west to longitude 139°46'38"E AGD66, and north to point of commencement.

AREA: 0.1 square kilometres approximately.
THE PLAN HEREINBEFORE REFERRED TO

PINTARI NORTH FIELD

PETROLEUM PRODUCTION LICENCE NO: 54

Government of South Australia
Primary Industries and Resources SA

SR 28/1/140

AREA: 0.10 sq km (approx)
MEMORANDUM


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.

   [Signature]

   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
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
Petroleum Act 2000
S.115

MEMORANDUM


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
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
MEMORANDUM


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
MEMORANDUM


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;


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
MEMORANDUM


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
MEMORANDUM

PETROLEUM PRODUCTION LICENCES

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.

   

   [Signature]

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

   Date: 15 October 2002
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.

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.

  Boral Energy Resources Ltd is now known as Origin Energy Resources Ltd.

J S ZABROWARNY
MANAGER PETROLEUM LICENSING AND ROYALTIES

13 March 2000
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
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

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.

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

Alan Cameron
Chairman
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.

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

M COLELLA
A/Manager, Petroleum Administration

30/6/97
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.

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.

<table>
<thead>
<tr>
<th>Farmout Areas</th>
<th>PPLs</th>
<th>Licensees</th>
<th>Interests %</th>
</tr>
</thead>
<tbody>
<tr>
<td>Patchawarra</td>
<td>6 to</td>
<td>Santos</td>
<td>40.70</td>
</tr>
<tr>
<td>Central</td>
<td>20</td>
<td>Vamgas</td>
<td>8.51</td>
</tr>
<tr>
<td>Merrimelia -</td>
<td>22 to</td>
<td>Alliance</td>
<td>3.97</td>
</tr>
<tr>
<td>Innaminka</td>
<td>25</td>
<td>Reef</td>
<td>1.97</td>
</tr>
<tr>
<td>Murta</td>
<td>27 to</td>
<td>Santos Petroleum</td>
<td>0.40</td>
</tr>
<tr>
<td>Tinga-Tingana</td>
<td>61</td>
<td>BOD</td>
<td>3.99</td>
</tr>
<tr>
<td>Patchawarra</td>
<td>63 to</td>
<td>BOL</td>
<td>0.21</td>
</tr>
<tr>
<td>South West</td>
<td>75</td>
<td>Boral</td>
<td>13.19</td>
</tr>
<tr>
<td>Nappacoongee</td>
<td>78 to</td>
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<td>Koonoherra</td>
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</tbody>
</table>

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

[Signature]
J S Zabrowarny
MANAGER PETROLEUM ADMINISTRATION

5 September 1995
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.

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

Alan Cameron
Chairman
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

24/7/95
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.

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

Alan Cameron
Chairman
MEMORANDUM

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 2016:

-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

16/11/92
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 ........................................ 1994 I acknowledged receipt of the following documentation pursuant to delegated powers dated 3 December 1993, Gazetted 9 December 1993, page 2916:


(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 1003 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.

[Signature]

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 above mentioned document.

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

<table>
<thead>
<tr>
<th>Farmout Area</th>
<th>PPL</th>
<th>LICENCEES</th>
<th>FORMER INTERESTS</th>
<th>REVISED INTERESTS</th>
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<td>Moomba</td>
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<td>Santos Ltd (Santos)</td>
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<td>Location</td>
<td>Start</td>
<td>End</td>
<td>Company/Project</td>
<td>Depth</td>
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<td></td>
<td></td>
<td>-</td>
<td>Crusader</td>
<td>4.75</td>
</tr>
</tbody>
</table>
Tinga-Tingana      Santos      45.0      40.25
Delhi            27.0      27.0
Vangas           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
MEMORANDUM

This memorandum will certify that I have today approved the following three dealings pursuant to Section 42 of the Petroleum Act.

(1) The Assignment of the 25% interest of Hartogen Energy Limited (HEL) to SAGASCO Resources Limited (SAGASCO) in the Patchawarra South West Block and in Petroleum Production Licence No. 28 as contemplated in the 'Deed of Assignment and Assumption Patchawarra South-West Block Joint Operating Agreement' dated 22 February 1990 between Santos Limited (Santos), Delhi Petroleum Pty Limited (Delhi), Vamgas Limited (Vamgas), Australian Petroleum Development Pty Limited (APD), HEL and SAGASCO.

(2) The Assignment of the 5% interest of HEL to SAGASCO in the Murta Block and in the Petroleum Production Licences 31, 32, 37, 38, 53 and 54 as contemplated in the 'Deed of Assignment and Assumption Murta Block Joint Operating Agreement' dated 22 February 1990 between Santos, Delhi, Vamgas, HEL and SAGASCO.

(3) The Assignment of the 5% interest of HEL to SAGASCO in the Tinga Tingana Block Joint Operating Agreement' dated 22 February 1990 between Santos, Delhi, Vamgas, HEL and SAGASCO.

Consequently, the Interests have now changed as follows:

<table>
<thead>
<tr>
<th>Company</th>
<th>Patchawarra South West Block and PFL 28</th>
<th>Murta Block and PFLs 31, 32, 37, 38, 53 &amp; 54</th>
<th>Tinga Tingana Block</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Previous Interest</td>
<td>Revised Interest</td>
<td>Previous Interest</td>
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<td>Santos</td>
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<td>25</td>
<td>45</td>
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<td>Delhi</td>
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<td>Vamgas</td>
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<tr>
<td></td>
<td>100</td>
<td>100</td>
<td>100</td>
</tr>
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</table>

The following documents were also submitted for my consideration but did not require formal consent pursuant to Section 42 of the Petroleum Act:-

(1) Deed entitled 'Sale and Purchase of Assets South Australia' dated 19 December 1989 between HEL and SAGASCO.

(2) 'Deed of Variation' dated 22 February 1990 between HEL and SAGASCO.
One copy of all five documents and this Memorandum are hereby entered on the Petroleum Register.

Ref: V.25 PEL: S+6

18/8/1990

MINISTER OF MINES AND ENERGY
NOTICE OF SURRENDER OF PORTION OF PETROLEUM EXPLORATION LICENCES

Department of Mines and Energy, Parkside, 16 June 1989

NOTICE is hereby given that portion of the undermentioned petroleum exploration licences has been surrendered in accordance with the provisions of the Petroleum Act, 1940.

J. KLUNDER, Minister of Mines and Energy

<table>
<thead>
<tr>
<th>No. of Licence</th>
<th>Licensees</th>
<th>Locality</th>
<th>Date of Surrender</th>
<th>Area in km²</th>
<th>Reference</th>
</tr>
</thead>
<tbody>
<tr>
<td>34</td>
<td>Feistea Pty Ltd, Vigilant Oil N.L., John C. Kinard</td>
<td>Spencer Gulf</td>
<td>27 June 1989</td>
<td>3 733</td>
<td>SR 27.2.79</td>
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</tbody>
</table>

Description of Area

The licence area being retained is that portion of the State bounded as follows: Commencing at a point being the intersection of latitude 33°15'S and longitude 137°25'E, thence east to longitude 137°59'E, south to latitude 33°40'S, west to longitude 137°45'E, south to latitude 33°45'S, west to longitude 137°40'E, south to latitude 33°50'S, west to longitude 137°55'E, south to latitude 34°00'S, west to longitude 137°25'E, south to latitude 34°10'S, west to longitude 137°20'E, south to latitude 35°20'S, west to longitude 137°30'E, north to latitude 34°00'S, east to longitude 137°30'E, north to latitude 33°50'S, east to longitude 137°25'E, north to latitude 33°30'S, east to longitude 137°20'E, north to latitude 33°25'S, east to longitude 137°15'E, north to latitude 33°20'S, east to longitude 137°25'E and north to the point of commencement, but excluding those portions of the following Parks which fall within the above described area: Munyareo, Franklin Harbor, Caribbe, Gambier Islands, Warrenben, Althorpe Islands and Bird Islands Conservation Parks, and Innes National Park. 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.

Area: 18 037 square kilometres approximately.

GRANT OF PETROLEUM PRODUCTION LICENCE

Department of Mines and Energy, Parkside, 16 June 1989

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

J. KLUNDER, Minister of Mines and Energy

<table>
<thead>
<tr>
<th>No. of Licence</th>
<th>Licensees</th>
<th>Locality</th>
<th>Date of Expiry</th>
<th>Area in km²</th>
<th>Reference</th>
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</thead>
<tbody>
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<td>54</td>
<td>SANTOS Limited, Delhi Petroleum Pty Ltd, Vamgas Limited, SAGASCO Resources Ltd, Harogen Energy Ltd</td>
<td>Pinnari North Field in the Cooper Basin</td>
<td>15 June 2010</td>
<td>0.104</td>
<td>SR 28.1.140</td>
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</tbody>
</table>

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°14'30''S and longitude 139°46'38''E, thence east to longitude 139°46'46''E, south to latitude 28°14'38''S, west to longitude 139°46'44''E, south to latitude 28°14'48''S, west to longitude 139°46'38''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.

Area: 0.104 square kilometres (approximately).
MEMORANDUM

Petroleum Production Licence No. 54 (Pintari North)

1. This licence granted on 16/6/89 is hereby entered on the Petroleum Register.

2. A security in the form of a $4000 bank guarantee has been lodged with respect to this licence.

3. Interests in the licence are as follows:-
   - SANTOS Limited (45%)
   - Delhi Petroleum Pty. Limited (27%)
   - Vamgas Limited (14%)
   - SAGASCO Resources Limited (9%)
   - Hartogen Energy Limited (5%)

16/6/89
SR28/1/140

MINISTER OF MINES AND ENERGY
PETROLEUM ACT, 1940

PETROLEUM PRODUCTION LICENCE NO. 54

I, JOHN HEINZ CORNELIS KLUNDER, Minister of Mines and Energy in the State of South Australia pursuant to the provisions of the Petroleum Act, 1940 and all other enabling powers HEREBY GRANT to:

SANTOS Limited, whose registered office is situated at 39 Grenfell Street, Adelaide S.A. 5000 ("SANTOS")

Delhi Petroleum Pty Ltd., whose registered office is situated at 8th Floor, 70 Pirie Street, Adelaide S.A. 5000 ("Delhi")

Vamgas Ltd., whose registered office is situated at C/- Arthur Andersen and Co., Level 23, 35 Collins Street, Melbourne Victoria 3000 ("Vamgas")

SAGASCO Resources Limited, whose registered office is situated at 60 Hindmarsh Square, Adelaide S.A. 5000 ("SAGASCO") and

Hartogen Energy Limited, whose registered office is situated at 15 Young Street, Sydney. NSW. 2000 ("Hartogen")

(hereinafter referred to as the 'Licensees') a Petroleum Production Licence (hereinafter referred to as the "licence") in respect of the area described below and subject to the conditions set out below, to have effect for a period of twenty-one years and to expire on ..6..20..3..0..10., 2010 but carrying the rights of renewal conferred by the Petroleum Act, 1940.

Description of Area

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

Conditions

1. The Licensees shall at all times comply with:

(a) the provisions of the Petroleum Act, 1940 and of any regulations for the time being and from time to time in force under that Act; and

(b) all directions given to them under the Act or regulations for the time being and from time to time in force under that Act.
Declaration

As between the Licensees, it is hereby acknowledged and agreed that the Licensees, as at the date of grant of this licence, own and hold the following undivided interests respectively in and under this licence:-

- SANTOS Forty-five per centum (45%)
- Delhi Twenty-seven per centum (27%)
- Vamgas Fourteen per centum (14%)
- SAGASCO Nine per centum (9%)
- Hartogen Five per centum (5%)

and 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 31st day of December 1979 to which the Licensees are parties and as the same has been amended and as may hereafter be amended or replaced from time to time PROVIDED THAT any amendment or replacement which affects or could affect the undivided interests of the Licensees shall be of no force or effect unless approved by the Minister.
SIGNED SEALED AND DELIVERED
by the said MINISTER OF MINES
AND ENERGY at ADELAIDE this

16th day of June 1987

MINISTER OF MINES
AND ENERGY

SIGNED SEALED AND DELIVERED
by the said LICENSEESE at

ADELAIDE, SYDNEY & MELBOURNE this

19th day of May 1989

THE COMMON SEAL of SANTOS LIMITED
was hereto affixed in the presence of:

...........................................
(Director)

...........................................
(Secretary)

SIGNED, SEALED AND DELIVERED for and on behalf of DELHI
PETROLEUM PTY. LTD by Bruce Galloway MCKAY its duly
authorised Attorney under Power of Attorney dated the 6th
day of July, 1988, 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

Bruce Mckay
Delhi Petroleum
Pty. Ltd. by its
Attorney B.G. McKay
THE COMMON SEAL of VAMGAS LIMITED
was hereto affixed in the presence of:

[Signature]
(Director)  [Signature]
(Secretary)

THE COMMON SEAL of SAGASCO RESOURCES LIMITED
was hereto affixed in the presence of:

[Signature]
(Director)  [Signature]
(Secretary)

THE COMMON SEAL of HARTOGEN ENERGY LIMITED
was hereto affixed in the presence of:

[Signature]
(Director)  [Signature]
(Secretary)
PETROLEUM PRODUCTION LICENCE NO. 54

THE SCHEDULE

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

Commencing at a point being the intersection of latitude 28°14'30"S and longitude 139°46'38"E, thence east to longitude 139°46'46"E, south to latitude 28°14'38"S, west to longitude 139°46'44"E, south to latitude 28°14'48"S, west to longitude 139°46'38"E, and north to the point of commencement.

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

Area: 0.104 square kilometres (approximately)
NOTE: There is no warranty that the boundary of this Licence is correct in relation to other features on the map. The boundary is to be ascertained by reference to the Australian Geodetic Datum and the schedule.

SANTOS LIMITED  DELHI PETROLEUM PTY. LTD.
VAMGAS LIMITED  SAGASCO RESOURCES LTD.
HARTOGEN ENERGY LTD.

PETROLEUM PRODUCTION LICENCE NO. 54

DEPARTMENT OF MINES AND ENERGY - S A  SR 28/1/140  AREA  0.104 km² (approx.)
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) 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:

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Energy Resources Division
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Adelaide SA 5001
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