

# Petroleum Exploration & Development Offshore Ireland

## Acreage Position – November 2009

### Petroleum Leases

A **Petroleum Lease** vests in the Lessee the exclusive right to produce petroleum from the leased areas.

Lease	Commencement Date	Block Nos	Area (km <sup>2</sup> )	Participants (* = Operator)	% Interest
<b><u>Offshore Petroleum Lease No. 1: Kinsale/ Ballycotton</u></b>	7 May 1970	48/20, 48/25, 49/16 & 49/21	1,003.03	*PSE Kinsale Energy Limited	100%
<b><u>Corrib Petroleum Lease</u></b>	15 November 2001	18/20 (p) & 18/25 (p)	29.28	*Shell E&P Ireland Limited Statoil Exploration (Ireland) Limited Vermilion Resources Limited	45% 36.5% 18.5%
<b><u>Seven Heads Petroleum Lease</u></b>	13 November 2002	48/23 (p), 48/24 (p), 48/29 (p) & 48/30 (p)	168.5	*PSE Seven Heads Limited Island Oil and Gas Plc Sunningdale Oils (Ireland) Limited	86.5% 12.5% 1%

(p) - part block

## Petroleum Exploration Licences

A **Petroleum Exploration Licence** vests in the Holder the exclusive right of carrying out exploration for petroleum in a specific licensed offshore area.

A **Standard Exploration Licence** is issued for a period of 6 years in respect of an area with water depths of up to 200 metres.

A **Deepwater Exploration Licence** is issued for a period of 9 years in respect of an area with water depths exceeding 200 metres.

A **Frontier Exploration Licence** is issued in respect of an area with special difficulties related to physical environment, geology or technology – where such an area is specified and announced by the Minister for Communications, Energy and Natural Resources as a 'Frontier Area'. This licence type is valid for a period of not less than 12 years and comprises a maximum of 4 phases.

Licence	Licence Period	Block No.	Area (km <sup>2</sup> )	Participants (* = Operator)	% Interest
<u>2/94</u> Frontier	15 March 1994 - 14 March 2012	12/2 (p), 12/3 (p), 12/7 (p), & 12/8 (p)	465.6	*Shell E&P Ireland Limited Eni Ireland BV STX Ireland Ltd OMV (Ireland) Exploration GMBH	25% 40% 25% 10%
<u>3/94</u> Frontier	15 March 1994 - 14 March 2012	18/14 (p), 18/15 (p), 18/19 (p) & 18/20 (p)	467.2	*Shell E&P Ireland Limited Statoil Exploration (Ireland) Limited Marathon International Petroleum Hibernia Limited	45% 36.5% 18.5%
<u>5/94</u> Frontier	15 March 1994 - 14 March 2012	19/2 (p), 19/3 (p), 19/7 (p), 19/8, 19/11 (p), 19/12 (p), 19/16 (p) & 19/17 (p)	657.22	*Statoil Exploration (Ireland) Limited Hess Exploration Ireland Limited Shell E&P Ireland Limited Shell E&P Ireland Offshore Inc.	39.348% 42.065% 13.587% 5%
<u>7/97</u> Frontier	4 June 1997 - 1 December 2019	11/20, 11/23 (p), 11/24, 11/25, 11/28 (p), 12/11 (p), 12/12 (p) & 12/16 (p)	1,327.66	*Eni Ireland BV	100%
<u>1/99</u> Frontier	15 March 1999 - 31 December 2020	43/19, 43/20, 43/24, 43/25, 43/28 & 43/29	1,553.62	*Eni Ireland BV ExxonMobil Exploration and Production Ireland (Offshore) Limited Providence Resources Plc Sosina Exploration Limited	60% 36%  3.2% 0.8%
<u>1/04</u> Frontier	15 April 2004 - 14 April 2020	26/27 (p), 26/28, 35/2 (p) & 35/3 (p)	622.06	*Island Assets Porcupine Limited Valhalla Oil and Gas Limited Supernova Ireland Resources B.V.	51.5% 38.5% 10%
<u>2/04</u> Frontier	15 November 2004 - 14 June 2022	35/8 & 35/9	500.95	*Providence Resources Plc Chrysaor E&P Ireland Limited Sosina Exploration Limited	56% 30% 14%

(p) - part block

## Petroleum Exploration Licences (cont'd)

Licence	Licence Period	Block No.	Area (km <sup>2</sup> )	Participants (* = Operator)	% Interest
<b>3/04</b> Frontier	15 November 2004 - 14 November 2021	44/18, 44/23, 44/24, 44/29, & 44/30	1,295.27	*ExxonMobil Exploration and Production Ireland (Offshore) Limited Eni Ireland BV Providence Resources Plc Sosina Exploration Limited	40% 40% 16% 4%
<b>2/05</b> Frontier	1 July 2005 - 30 June 2021	11/10, 11/15 & 12/1, 12/6	932.18	*Shell E&P Ireland Limited Eni Ireland BV STX Ireland Ltd OMV (IRELAND) Exploration GmbH	25% 40% 25% 10%
<b>3/05</b> Frontier	1 July 2005 - 30 June 2022	18/10, 19/1 & 19/6	715.58	*Island Rockall JV Limited OMV (Ireland) Killala Exploration GmbH	50% 50%
<b>4/05</b> Standard	1 November 2005 - 31 October 2011	49/17 (p), 49/22 (p) & 49/23 (p)	258.49	*Island Expro Limited Valhalla Oil and Gas Limited Encore Exploration Limited	65% 20% 15%
<b>5/05</b> Standard	1 November 2005 - 31 October 2011	48/26 (p), 48/27 (p), 57/1 (p), 57/2	664.2	*Island Expro Limited Valhalla Oil and Gas Limited Encore Exploration Limited	62.5% 25% 12.5%
<b>1/06</b> Frontier	1 December 2006 - 30 November 2021	27/4, 27/5 (p) & 27/9	610.55	*Serica Energy (UK) Limited RWE DEA AG	50% 50%
<b>2/06</b> Frontier	1 December 2006 - 31 August 2022	19/9, 19/13 & 19/17 (p)	653.53	*Statoil Exploration (Ireland) Limited Hess Exploration Ireland Limited Shell E&P Ireland Limited	39.348% 42.065% 18.587%
<b>3/06</b> Frontier	1 December 2006 - 30 November 2021	13/4 (p), 13/5 (p), 13/9 (p), 13/13 (p), 13/14 (p) & 14/1 (p)	699.29	*Island Oil and Gas plc Lundin Exploration BV Endeavour Energy UK Limited	40% 40% 20%
<b>4/06</b> Frontier	1 December 2006 - 30 November 2022	27/17 (p), 27/18, 27/22 (p) & 27/23	741.48	*Island Oil and Gas plc Lundin Exploration BV	50% 50%
<b>1/07</b> Standard	1 February 2007 - 31 January 2013	41/25 (p), 42/21 (p), 41/30 (p), 42/26 (p), 50/5 (p) & 51/1 (p)	622.87	*Providence Resources P.l.c	100%

(p) - part block

## Petroleum Exploration Licences (cont'd)

Licence	Licence Period	Block No.	Area (km <sup>2</sup> )	Participants (* = Operator)	% Interest
<b>2/07</b> Standard	1 February 2007 - 31 January 2013	49/8 (p), 49/9 (p), 49/13 (p), 49/14 (p), 49/18 (p), 49/19 (p), 50/6 (p), 50/7 (p), 50/11 (p) & 50/12 (p)	368.65	*Providence Resources P.l.c Challenger Minerals (Celtic Sea) Limited Dyas BV Atlantic Petroleum (Ireland) Limited Forest Gate Resources Inc Sosina Exploration Limited	43.5294% 16.325% 16.325% 10.8824% 7.5% 5.4412%
<b>3/07</b> Standard	1 April 2007 - 31 March 2013	48/29 (p), 48/30 (p) & 49/26 (p)	298.86	*Providence Resources P.l.c Challenger Minerals (Celtic Sea) Limited Dyas BV Atlantic Petroleum (Ireland) Limited Forest Gate Resources Inc Sosina Exploration Limited	43.5294% 16.325% 16.325% 10.8824% 7.5% 5.4412%
<b>4/07</b> Standard	1 August 2007 - 31 July 2013	49/11 (p), 49/12 (p), 49/13 (p), 49/17 (p) & 49/18 (p)	542.37	*Lansdowne Celtic Sea Limited	100%
<b>5/07</b> Standard	1 August 2007 - 31 July 2013	48/17 (p), 48/18 (p), 48/19 (p), 48/22 (p) & 48/24 (p)	365.81	*Lansdowne Celtic Sea Limited Island Expro Limited Sunningdale Oils (Ireland) Limited	77% 22% 1%
<b>1/08</b> Frontier	12 March 2008 - 11 March 2021	52/5, 52/10, 52/15, 53/1, 53/6 & 53/11	1570.3	*ExxonMobil Exploration and Production Ireland (Offshore) Limited Providence Resources Plc Sosina Exploration Limited	80% 16% 4%
<b>2/08</b> Frontier	12 March 2008 - 11 March 2021	52/13 (p), 52/14, 52/18, 52/19, 52/20, 52/23 & 52/24 (p)	1581.3	*ExxonMobil Exploration and Production Ireland (Offshore) Limited Providence Resources Plc Sosina Exploration Limited	80% 16% 4%
<b>3/08</b> Frontier	12 March 2008 - 11 March 2021	61/9, 61/10 & 62/6	801.62	*Island Oil and Gas Plc Supernova Ireland Resources BV	50% 50%
<b>4/08</b> Frontier	12 March 2008 - 11 March 2020	35/2 (p), 35/3 (p), 35/4, & 35/7(p)	741.06	*Providence Resources Plc Chrysaor E&P Ireland Limited Sosina Exploration Limited	56% 30% 14%
<b>5/08</b> Standard	1 April 2008 - 31 March 2014	47/25 (p), 48/21 (p), & 48/22 (p)	448.68	*Milesian Oil & Gas Limited	100%

(p) - part block

## Petroleum Exploration Licences (cont'd)

Licence	Licence Period	Block No.	Area (km <sup>2</sup> )	Participants (* = Operator)	% Interest
<b>1/09</b> Frontier	21 July 2009 - 20 July 2025	5/17, 5/18, 5/22, 5/23, 5/27 & 5/28	993.5	*Serica Energy (UK) Limited	100%

(p) - part block

## Licensing Options

A **Licensing Option** gives the Holder the first right to an Exploration Licence over all or part of the area covered by the Option.

Option No	Option Period	Block Nos.	Area (km <sup>2</sup> )	Participants (* = Operator)	% Interest
<b>08/1</b>	14 July 2008 - 13 July 2010	48/22 (p), 48/23 (p), 48/24 (p), 48/27 (p), 48/28 (p), 48/29 (p) & 48/30 (p)	291.69	*Lansdowne Celtic Sea Limited Providence Resources Plc Island Expro Limited	40% 30% 30%
<b>08/2</b>	18 August 2008 - 17 August 2011	32/25 (p), 33/16 (p), 33/17 (p), 33/18 (p), 33/21, 33/22 (p), 33/23 (p), & 33/26 (p).	958.47	*Providence Resources plc Star Energy Oil and Gas Ltd	50% 50%
<b>09/1</b>	2 March 2009 - 1 March 2012	48/14 (p), 48/15 (p), 49/11 (p) & 49/12 (p)	314.77	*Lansdowne Celtic Sea Limited	100%

(p) - part block

Licensing Option 07/1 (Providence Resources Plc, Challenger Minerals (Celtic Sea) Limited, DYAS B.V., Forest Gate Resources Inc and Atlantic Petroleum (Ireland) Limited) expired on 31 August 2009

Licensing Option 06/1 (Providence Resources Plc, ExxonMobil Exploration and Production Ireland (Offshore) Limited and Sosina Exploration Limited) expired on 30 September 2009

Licensing Option 07/2 (Valhalla Oil & Gas Limited) expired on 4 November 2009

## Petroleum Prospecting Licences

A Petroleum Prospecting Licence is non-exclusive and confers on the Licensee the right to search for petroleum in any area where an Exploration Licence, Reserved Area Licence or Petroleum Lease is not in force.

Licence No.	No. of Years	Licence From	Licensee
<u>1/07</u>	3	23 April 2007	Providence Resources P.l.c
<u>2/07</u>	3	17 May 2007	GX Technology Corporation
<u>1/08</u>	3	28 May 2008	ElectroMagnetic GeoServices ASA
<u>2/08</u>	3	1 July 2008	ExxonMobil Exploration and Production Ireland (Offshore) Limited
<u>3/08</u>	3	10 July 2008	Wavefield Inseis ASA
<u>1/09</u>	3	25 May 2009	Lansdowne Celtic Sea Limited
<u>2/09</u>	3	26 July 2009	TGS-Nopec Geophysical Company ASA

**Petroleum Prospecting Licence 3/07 (Valhalla Oil & Gas Limited) expired on 4 November 2009**

## Company Addresses

**Atlantic Petroleum (Ireland) Limited**, Suite 7, International House, Tara Street, Dublin 2

**Challenger Minerals (Celtic Sea) Limited**, 15375 Memorial Drive, Houston, Texas 77079-4101, USA

**Chrysaor E&P Ireland Limited**, 1st Floor, Fitzwilton House, Wilton Place, Dublin 2

**DYAS B.V.**, Rijnkade 1, 3511 LC Utrecht, The Netherlands

**ElectroMagnetic GeoServices ASA**, Stiklestadveien 1, N/7041Trondheim, Norway

**Endeavour Energy UK Limited**, 33rd Floor City Point, One Ropemaker Street, London EC2Y 9UE, United Kingdom

**Encore Exploration Limited**, 70 Sir John Rogerson's Quay, Dublin 2

**Eni Ireland BV**, World Trade Center, 17th floor, B-Tower, Strawinskylaan 1727, 1077 XX Amsterdam, The Netherlands

**ExxonMobil Exploration and Production Ireland (Offshore) Limited**, 50 Shirley Street, Nassau, New providence, The Bahamas

**Forest Gate Resources Inc**, 1 Place Ville Marie, Suite 2125, Montreal, Quebec, H3B 2C6, Canada

**GX Technology Corporation**, 2101 CityWest Blvd., Building III, Suite 900, Houston, TX 77042 ; USA

**Hess Exploration Ireland Limited**, Caledonian House, Dr. Roy's Drive, P.O. Box 1043GT, George Town, Grand Cayman, Cayman Islands

**Island Assets Porcupine Limited**, 27 Lower Mount Street, Dublin 2

**Island Expro Limited**, 27 Lower Mount Street, Dublin 2

**Island Oil and Gas Plc**, 27 Lower Mount Street, Dublin 2

**Island Rockall JV Limited**, 27 Lower Mount Street, Dublin 2

**Lansdowne Celtic Sea Limited**, 26 Upper Pembroke Street, Dublin 2

**Lundin Exploration BV**, Amaliastraat 3-5, 2514 JC, The Hague, The Netherlands

**Marathon International Petroleum Hibernia Limited**, Mahon Industrial Estate, Blackrock, Co. Cork

**Milesian Oil & Gas Limited**, 26 Upper Pembroke Street, Dublin 2

**OHM Ltd**, The Technology Centre, Claymore Drive, Aberdeen AB23 8GD ,United Kingdom

**OMV (Ireland) Exploration GMBH**, Gerasdorferstrasse 151, A - 1210 Vienna, Austria

**OMV (Ireland) Killala Exploration GMBH**, Gerasdorferstrasse 151, A - 1210 Vienna, Austria

## Company Addresses (continued)

**Providence Resources Plc**, Airfield House, Airfield Park, Donnybrook, Dublin 4

**PSE Kinsale Energy Limited**, Mahon Industrial Estate, Blackrock, Co. Cork

**PSE Seven Heads Limited**, Mahon Industrial Estate, Blackrock, Co. Cork

**RWE DEA AG**, Uberseering 40, 22297 Hamburg, Germany

**Serica Energy (UK) Limited**, 52 Bedford Row, London WC1R 4LR, United Kingdom

**Shell E&P Ireland Limited**, Corrib House, 52 Lower Leeson Street, Dublin 2

**Shell E&P Ireland Offshore Inc.**, Corrib House, 52 Lower Leeson Street, Dublin 2

**Sosina Exploration Limited**, Chandos Place, Covent Garden, London WC2N 4HS, United Kingdom

**Star Energy Oil and Gas Ltd**, Burdett House, 15/16 Buckingham Street London WC2N 6DU

**Statoil Exploration (Ireland) Limited**, Statoil House, 6 George's Dock, IFSC, Dublin 1

**STX Ireland Limited**, 1 Stokes Place, St Stephens Green, Dublin 2

**Sunningdale Oils (Ireland) Limited**, Sandy Lodge, Sandy Lane, Kingswood, Surrey, KT20 6ND, England

**Supernova Ireland Resources B.V.**, Marsstrat 33, 2132 HR Hoofddorp, The Netherlands

**TGS-NOPEC Geophysical Company ASA**, Hagaløkkveien 13, N-1383 Asker, Norway

**Valhalla Oil and Gas Limited**, 2nd Floor, Church Gate, 9-11 Church Street West, Woking, Surrey, GU21 6DJ, United Kingdom

**Vermilion Resources Limited**, 2800, 400 4th Avenue SW, Calgary, Alberta, T2P 0JR, Canada

**Wavefield Inseis ASA**, Strandveien 15, P.O. Box 123, N-1325 Lysaker, Norway