PETROLEUM EXPLORATION AND DEVELOPMENT IN IRELAND

Report Covering Period 1 January 2016– 30 June 2016

Report by the Minister for Communications, Energy and Natural Resources for the six months ended 30 June 2016, in accordance with Section 57 of the *Petroleum and Other Minerals Development Act, 1960*, and the said Section 57 as applied by the *Continental Shelf Act, 1968*.

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Note: Block numbers refer to blocks in the Williams Grid.

INTRODUCTION

This Report sets out:

- the particulars of all Authorisations granted by the Minister for Communications, Energy and Natural Resources that were current during the reporting period;
- the amount of money relating to petroleum exploration and development collected by the Minister during the reporting period, and
- other information relating to petroleum exploration and development in Ireland.

PART ONE PETROLEUM AUTHORISATIONS

PETROLEUM LEASES

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

Lease	Commencement Date	Block Numbers (p) = part block	Area (km²)	Participants (* = Operator)	% Interest
<u>Offshore Petroleum</u> Lease No. 1: Kinsale/Ballycotton	7 May 1970	48/20, 48/25, 49/16 & 49/21	1003.03	*PSE Kinsale Energy Limited.	100%
<u>Corrib Petroleum</u> Lease	15 November 2001	18/20(p) & 18/25(p)	29.28	*Shell E&P Ireland Limited Statoil Exploration (Ireland) Ltd. Vermilion Energy Ireland Limited	45% 36.5% 18.5%
<u>Seven Heads</u> <u>Petroleum Lease</u>	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) Ltd.	86.5% 12.5% 1%

(p) - part block

OFFSHORE 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.

<u>Twenty eight</u> offshore Petroleum Exploration Licences were current during the reporting period. <u>Nine</u> of these Licences were subject to the 1992 *'Licensing Terms for Offshore Oil and Gas Exploration and Development'*. <u>Nineteen</u> Licences were subject to the 2007 *'Licensing Terms for Offshore Oil and Gas Exploration, Production and Development'*.

A **Standard Exploration Licence** is issued for a period of six years in respect of an area with water depths of up to 200 metres and is subject to an annual rental fee of *€182* per km².

A **Deepwater Exploration Licence** is issued for a period of nine years in respect of areas in which the water depth exceeds 200 metres and is subject to an annual rental fee of $\notin 91$ per km². If acreage is surrendered at the end of the fourth year, the annual rental fee rises to $\notin 182$ per km².

A **Frontier Exploration Licence** may be 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 twelve years and is comprised of a maximum of four phases. Annual rental during the first phase is **€29** per km² and **€60** per km² during the second and subsequent phases.

Licence	Licence Period	Block No. ((p) = part block)	Area (km²)	Participants (* = Operator)	% Interest
<u>1/99</u> Frontier	15 March 1999 - 31 December 2022	43/19, 43/20, 43/24, 43/25, 43/28 & 43/29	1,553.62	*Eni Ireland BV Providence Resources Plc Sosina Exploration Limited	93.75% 5% 1.25%
<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 (Porcupine) Limited Supernova Ireland Resources B.V.	41.5% 38.5% 20%
2/04 Frontier	15 November 2004 - 14 March 2023	35/8 & 35/9	500.95	*Capricorn Ireland Ltd Chrysaor E&P Ireland Limited Providence Resources Plc Sosina Exploration Limited	38% 26% 32% 4%

The 1992 & 2007 Terms also provide for an application fee of €9,122 in each case.

Petroleum Exploration Licences (continued)

Licence	Licence Period	Block No. ((p) = part_block)	Area (km²)	Participants (* = Operator)	% Interest
<u>3/04</u> Frontier	15 November 2004- 14 November 2021	44/18, 44/23, 44/24, 44/29, & 44/30	1,295.27	* Eni Ireland BV Providence Resources Plc Sosina Exploration Limited Repsol Exploracion Irlanda SA Atlantic Petroleum (Ireland) Ltd	36.913% 21.477% 2.684% 33.557% 5.369
<u>3/05</u> Frontier	1 July 2005 - 30 June 2022	18/10, 19/1 & 19/6	715.58	*Island Rockall JV Limited Island Oil & Gas Plc	50% 50%
<u>4/05</u> Standard	1 November 2005 – 31 October 2011 (Lease undertaking application being considered)	49/17(p), 49/22(p) & 49/23(p).	258.49	*Island Expro Limited Valhalla Oil and Gas Limited St Stephen's Energy Limited	65% 20% 15%
5/05 Standard	1 November 2005 - 31 October 2011 (Lease undertaking application being considered)	48/26 (p), 48/27 (p), 57/1 (p), 57/2	664.2	*Island Expro Limited Valhalla Oil and Gas Limited St Stephen's Energy Limited	62.5% 25% 12.5%
<u>1/06</u> Frontier	1 December 2006 - 30 November 2021	27/4(p), 27/5 (p) & 27/9 (p).	305.25	*Serica Energy Slyne BV RWE DEA AG	50% 50%
<u>4/06</u> 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%
1/07 Standard	1 February 2007 - 30 June 2014 (Follow-on application being considered)	41/25 (p), 42/21 (p), 41/30 (p), 42/26 (p), 50/5 (p) & 51/1 (p)	302.22	Providence Resources Plc	100%
<u>2/07</u> Standard	1 February 2007- 31 January 2013 (Lease undertaking application being considered)	49/9 (p), 50/6 (p), 50/7 (p) & 50/11 (p)	107.23	*Providence Resources Plc Atlantic Petroleum (Ireland) Limited Sosina Exploration Limited	72.500% 18.333% 9.1667%
<u>4/07</u> Standard	1 August 2007 - 31 July 2017	49/11 (p), 49/12 (p), 49/13 (p), 49/17 (p)& 49/18 (p)	542.37	*PSE Seven Heads Limited Lansdowne Celtic Sea Limited	80% 20%

Petroleum Exploration Licences (continued)					
Licence	Licence Period	Block No. ((p) = part_block)	Area (km²)	Participants (* = Operator)	% Interest
<u>3/08</u> Frontier	12 March 2008 - 11 March 2021	61/9, 61/10 & 62/6	801.59	*Island Oil and Gas Plc Supernova Ireland Resources BV	50% 50%
<u>4/08</u> Frontier	12 March 2008 - 30 June 2021	35/2(p), 35/3(p) & 35/4 (p)	370.42	*Capricorn Ireland Ltd Chrysaor E&P Ireland Limited Providence Resources Plc Sosina Exploration Limited	38% 26% 32% 4%
<u>1/09</u> Frontier	21 July 2009 – 20 July 2027	5/17, 5/18, 5/22, 5/23, 5/27 & 5/28	390.0463	Serica Energy Rockall BV	100%
<u>1/11</u> Standard	14 July 2011- 13 July 2019	48/22(p), 48/23(p),48/24(p), 48/27(p), 48/28(p), 48/29(p) & 48/30(p)	613.9969	*Exola Ltd. Lansdowne Celtic sea Ltd	80% 20%
<u>2/11</u> Standard	18 August 2011 – 17 August 2019	32/25(p), 33/21(p) & 33/26(p)	384.13	Providence Resources Plc	100%
<u>1/13</u> Frontier	5 July 2013 – 4 July 2028	44/4(p), 44/5(p), 44/9(p), 44/10, 44/14(p) , 44/15(p)	1051.75	Antrim Exploration (Ireland) Ltd	100%
<u>2/13</u> Frontier	5 July 2013 – 4 July 2028	43/9, 43/10(p), 43/14 & 43/15(p).	768.02	Europa Oil and Gas (Ireland West) Ltd	100%
<u>3/13</u> Frontier	5 July 2013 – 4 July 2028	54/1(p), 54/2, 54/6(p) & 54/7.	781.97	Europa Oil and Gas (Ireland East) Ltd	100%
<u>4/13</u> Frontier	1 December 2013- 30 November 2028	11/10, 11/15, 12/1(p), 12/6 & 12/11(p)	925.05	Serica Energy Rockall BV	100%
5/13 Frontier	13 December 2013- 12 December 2028	35/25(p), 35/30, 36/21(p), 36/26(p), 44/5(p) & 45/1(p)	951.56	*Woodside Energy (Ireland) Pty Ltd Bluestack Energy Ltd	90% 10%
<u>1/14</u> Frontier	1 January 2014 – 31 December 2028	35/13, 35/14, 35/15(p), 35/18 and 35/19	1133.70	*Capricorn Ireland Limited Providence Resources Plc Chrysaor E&P Ireland Limited Sosina Exploration Limited	38% 32% 26% 4%
<u>2/14</u> Frontier	1 January 2014 – 31 December 2028	52/5(p), 52/10(p), 52/15(p), 53/1(p), 53/6(p) and 53/11(p)	1166.41	*Providence Resources Plc Sosina Exploration Limited	80% 20%
<u>3/14</u> Frontier	1 March 2014 – 28 February 2029	35/23(p), 35/24(p) and 35/25(p)	474.86	*Woodside Energy (Ireland) Pty Ltd Petrel Resources Plc	85% 15%

Licence	Licence Period	Block No. ((p) = part block)	Area (km²)	Participants (* = Operator)	% Interest
<u>4/14</u> Frontier	1 March 2014 - 28 February 2029	45/6(p), 45/11(p) and 45/16(p)	576.44	*Woodside Energy (Ireland) Pty Ltd Petrel Resources Plc	85% 15%
<u>5/14</u> Frontier	1 March 2014 to 28 February 2029	34/19(p), 34/20(p), 34/24(p), 34/25(p), 35/16(p) and 35/21(p)	1,135.9	*Woodside Energy (Ireland) Pty Ltd AzEire Ltd	60% 40%
6/14 Frontier	1 April 2014 to 31 March 2029	61/13(p), 61/14, 61/15, 61/18(p), 61/19(p), 61/20(p), 62/11(p) and 62/16(p)	1,203.94 41	* Providence Resources Plc Sosina Exploration Limited	80% 20%

(p) – part block SEL 5/07 surrendered 31 December 2015 SEL 5/08 surrendered 31 December 2015

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. ((p) = part block)	Area (km²)	Participants (* = Operator)	% Interest
<u>11/1</u> Onshore	1 March 2011 – 28 February 2013 (Follow-on application under consideration)	Clare Basin	495	Enegi Oil Plc	100%
<u>11/3</u> Onshore	1 March 2011 – 28 February 2013 (Follow-on application under consideration	Northwest Carboniferous Basin	986	Tamboran Resources PTY Ltd	100%
13/1 Offshore	1 May 2013- 30 April 2016	47/30, 48/26(p), 56/4, 56/5, 56/9(p), 56/10, 56/13(p), 56/14(p), 56/15, 56/18, 56/19, 57/1(p) & 57/6(p)	2656	AzEire Ltd	100%
13/2 Offshore	1 May 2013 – 30 April 2016	55/25, 55/30, 56/11(p), 56/12(p), 56/16, 56/17, 56/21, 56/22, 56/26, 56/27, 63/5, 64/1, 64/2(p) & 64/6(p)	3074	AzEire Ltd	100%
13/3 Offshore	1 May 2013- 30 April 2016	56/6(p), 56/7(p),56/8(p), 56/9(p),56/11(p), 56/12(p), 56/13(p) & 56/14(p)	1155	Fastnet Oil and Gas (Ireland) Ltd	100%
13/4 Offshore	1 December 2013 - 30 November 2016	57/13(p), 57/14(p), 57/15(p), 57/17(p), 57/18, 57/19(p), 57/21(p), 57/22 and 57/23(p)	1530.14	Providence Resources Plc	100%
13/5 Offshore	1 December 2013 - 30 November 2016	50/12, 50/6(p), 50/7(p), 50/8(p), 50/9(p), 50/11(p) and 50/13(p)	765.02	*Excalibur Exploration Ltd Theseus Ltd	90% 10%
<u>14/1</u> Offshore	1 October 2014 - 30 September 2016	48/28(p), 48/29(p), 48/30(p), 49/26(p), 57/3(p), 57/4(p) and 57/5(p)	1035.739	Faroe Petroleum (U.K.) Limited	100%

Option No	Option Period	Block Nos. ((p) = part_block)	Area (km²)	Participants (* = Operator)	% Interest
<u>14/2</u> Offshore	1 October 2014 - 30 September 2016	57/7, 57/11, 57/6(p), 57/8(p), 57/9(p) and 57/12(p)	1086.232	Faroe Petroleum (U.K.) Limited	100%
<u>14/3</u> Offshore	1 October 2014 - 30 September 2016	50/10, 50/14, 50/16, 50/17, 50/9(p), 50/11(p), 50/13(p), and 50/18(p)	1336.045	Faroe Petroleum (U.K.) Limited	100%
<u>14/4</u> Offshore	15 October 2014 - 14 October 2017	57/3(p), 57/4(p), 57/5(p), 57/8(p) & 57/9(p)	416.273	*Trans International Oil Exploration Theseus Limited	90% 10%
<u>15/1</u> Offshore	1 March 2015 – 31 August 2016	55/13, 55/7(p), 55/8(p), 55/12(p), 55/17(p), 55/18(p) & 55/19(p)	996.407	Fastnet Oil & Gas Ireland Ltd.	100%
<u>16/1</u> Offshore	1 March 2016 – 28 February 2018	53/29(p), 53/30(p), 54/21, 54/22, 54/26, 54/27 & 61/5(p)	1405.276	*Eni Ireland B.V. BP Exploration Operating Company Ltd.	50% 50%
<u>16/2</u> Offshore	1 March 2016 – 28 February 2018	54/3 & 54/8	522.5155	Europa Oil & Gas (Holdings) Plc	100%
<u>16/3</u> Offshore	1 March 2016 – 28 February 2018	52/7, 52/8, 52/9(p), 52/12, 52/13, 52/14(p), 52/17(p) & 52/18 (p)	1557.3513	ExxonMobil Exploration and Production Ireland (Offshore South) Limited Statoil Exploration (Ireland) Limited	50% 50%
<u>16/4</u> Offshore	1 March 2016 – 28 February 2018	61/17, 61/18(p), 61/19(p), 61/22(p) & 61/23(p)	881.2274	*ExxonMobil Exploration and Production Ireland (Offshore South) Limited Statoil Exploration (Ireland) Limited	50% 50%
<u>16/5</u> Offshore	1 March 2016 – 28 February 2018	61/7(p), 61/8(p), 61/11, 61/12 & 61/13(p	731.0954	Nexen Petroleum UK Limited	100%
<u>16/6</u> Offshore	1 March 2016 – 28 February 2018	61/20(p), 61/22(p), 61/23(p), 61/24(p) & 61/25	874.3265	Nexen Petroleum UK Limited	100%
<u>16/7</u> Offshore	1 March 2016 – 28 February 2018	43/27, 52/2, 52/3, 52/4, 52/9(p) & 52/10(p)	1300.6126	Nexen Petroleum UK Limited	100%
16/8 Offshore	1 March 2016 – 28 February 2018	60/13, 60/14, 60/15, 60/18(p), 60/19, 60/20 & 61/16(p)	1611.7667	Nexen Petroleum UK Limited	100%

Option No	Option Period	Block Nos. ((p) = part_block)	Area (km²)	Participants (* = Operator)	% Interest
<u>16/9</u> Offshore	1 March 2016 – 28 February 2018	54/23 & 54/28	529.8617	Scotia Oil & Gas Exploration Ltd	100%
<u>16/10</u> Offshore	1 March 2016 – 28 February 2018	53/27(p), 53/28(p), 53/29(p), 53/30(p), 61/2(p), 61/3, 61/4, 61/5(p), 61/7(p) & 61/8(p)	1597.2843	*Statoil Exploration (Ireland) Limited ExxonMobil Exploration and Production Ireland (Offshore South) Limited	50% 50%
16/11 Offshore	1 March 2016 – 28 February 2018	53/26(p), 53/27(p), 60/4(p), 60/5, 60/8(p). 60/9(p), 60/10(p), 61/1, 61/2(p), 61/6(p) & 61/7(p)	1598.7622	*Statoil Exploration (Ireland) Limited ExxonMobil Exploration and Production Ireland (Offshore South) Limited	50% 50%
16/12 Offshore	1 March 2016 – 28 February 2018	60/10(9), 61/6(p), 61/7(p) & 61/8(p)	473.1863	*Statoil Exploration (Ireland) Limited ExxonMobil Exploration and Production Ireland (Offshore South) Limited	50% 50%
<u>16/13</u> Offshore	March 2016 – 28 February 2018	52/27(p), 52/28(p), 52/29(p), 60/2, 60/3, 60/4(p), 60/7(p) & 60/8(p)	1597.722	*Statoil Exploration (Ireland) Limited ExxonMobil Exploration and Production Ireland (Offshore South) Limited	50% 50%
<u>16/14</u> Offshore	1 March 2016 – 28 February 2018	54/11, 54/12, 54/13, 54/16, 54/17 & 54/18	1578.584	Woodside Energy (Ireland) Pty Limited	100%
<u>16/15</u> Offshore	1 May 2016 – 30 April 2018	55/9, 55/10, 55/14 and 55/15	1048.72	Theseus Limited	100%
<u>16/16</u> Offshore	1 July 2016 – 30 June 2018	35/6, 35/7, 35/11 and 35/12	1003.8733	AzEire Limited	100%
<u>16/17</u> Offshore	1 July 2016 – 30 June 2018	44/14(p), 44/15(p), 44/19, 44/20, 44/25, 45/21 and 45/26	1498.4821	AzEire Limited	100%
<u>16/18</u> Offshore	1 July 2016 – 30 June 2018	34/29, 34/30, 35/26, 43/4, 43/5 and 44/1	1528.441	Capricorn Ireland Limited	100%
16/19 Offshore	1 July 2016 – 30 June 2018	35/27(p), 43/10(p), 43/15(p), 44/2(p), 44/6, 44/7(p) and 44/11(p)	975.5783	Europa Oil and Gas (Holdings) PLC	100%
<u>16/20</u> Offshore	1 July 2016 – 30 June 2019	18/14, 18/15, 18/19 and 18/20(p)	945.0947	Europa Oil and Gas (Holdings) PLC	100%

Option No	Option Period	Block Nos. ((p) = part_block)	Area (km²)	Participants (* = Operator)	% Interest
<u>16/21</u> Offshore	1 July 2016 – 30 June 2019	11/27(p), 11/28(p), 19/2, 19/3 and 19/4(p)	831.8929	Europa Oil and Gas (Holdings) PLC	100%
<u>16/22</u> Offshore	1 July 2016 – 30 June 2019	75/21, 75/26, 82/25 and 82/30	992.4618	Europa Oil and Gas (Holdings) PLC	100%
<u>16/23</u> Offshore	1 July 2016 – 30 June 2019	19/7, 19/8(p), 19/11(p), 19/12(p), 19/16(p) and 19/17	959.7287	Faroe Petroleum (U.K.) Limited	100%
<u>16/24</u> Offshore	1 July 2016 – 30 June 2018	26/26, 26/27(p), 35/1 and 35/2(p)	663.988	Petrel Resources Plc	100%
<u>16/25</u> Offshore	1 July 2016 – 30 June 2018	45/27	259.8712	Petrel Resources Plc	100%
<u>16/26</u> Offshore	1 July 2016 – 30 June 2018	18/24(p), 18/25(p), 18/29(p) and 18/30(p)	302.4861	*Predator Oil and Gas Ventures Limited Theseus Limited	50% 50%
<u>16/27</u> Offshore	1 July 2016 – 30 June 2018	44/2(p), 44/3(p), 44/7(p), 44/8(p), 44/11(p), 44/12, 44/13(p), 44/16(p) and 44/17	1323.5121	*Providence Resources Plc Sosina Exploration Limited	80% 20%
<u>16/28</u> Offshore	1 July 2016 – 30 June 2018	44/22, 44/27, 44/28, 53/2, 53/3 and 53/8	1561.9983	Ratio Petroleum Limited	100%
<u>16/29</u> Offshore	1 July 2016 – 30 June 2018	35/16(p), 35/17 and 35/22(p)	355.6429	Scotia Oil and Gas Exploration Limited	100%

(p) – part block * operator LO 11/13 follow-on application withdrawn

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
1/13	3	1 February 2013	ENI Ireland BV
2/13	3	1 April 2013	PGS Exploration (UK) Ltd
3/13	3	23 April 2013	Providence Resources Plc
4/13	3	1 April 2013	Fastnet Petroleum Ltd
5/13	3	1 April 2013	Fastnet Oil and Gas (Ireland) Ltd
6/13	3	1 June 2013	Spectrum Geo Ltd
7/13	3	1 July 2013	AzEire Ltd
8/13	3	1 July 2013	Kosmos Energy Ireland
9/13	3	1 July 2013	TGS NOPEC Geophysical Company ASA
2/14	2	1 April 2014	Polarcus MC Ltd
3/14	3	1 July 2014	Capricorn (Ireland) Ltd
4/14	3	1 July 2014	Seabird Exploration Multi-Client Ltd
5/14	3	1 July 2014	Searcher Seismic PTY Ltd
1/15	2	1 October 2014	Faroe Petroleum (U.K.) Limited
2/15	3	15 October 2014	Trans International Oil Exploration Ltd
1/16	3	1 February 2016	Electromagnetic Geoservices ASA
2/16	3	1 May 2016	Wood Woodside Energy (Ireland) Pty Ltd
3/16	3	23 April 2016	Providence Resources Plc

4/16	3	1 May 2016	Polarcus MC Ltd
5/16	3	1 May 2016	CGG Services SA
8/16	3	1 July 2016	TGS-NOPEC Geophysical Company ASA
9/16	3	1 July 2016	Statoil Exploration (Ireland) Limited

PART TWO MONEYS RECEIVED

During the six months ended 30 June 2016 the total amount of all moneys collected by the Minister either by way of rentals under or by virtue of any lease, licence or permit, sale of data, gas storage and application fees was €1,088,082. Details are as follows:

Rentals	Application fees	Assignments of interest	Sale of Data	Gas storage	Total
€878,011	€21,280	€0	€65,628	€123,163	€ 1,088,082

PART THREE OTHER INFORMATION

EXPLORATION/APPRAISAL WELLS drilled during the 6 months ended 31 December 2016

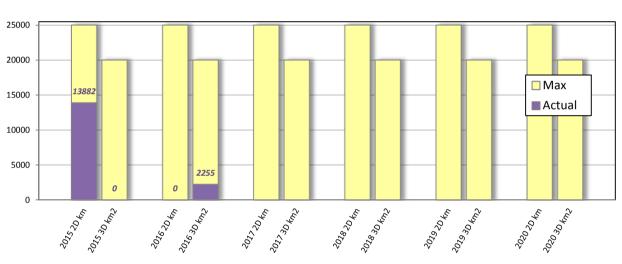
There were no exploration or appraisal wells drilled during the period 1 January 2016 to 30 June 2016.

SEISMIC SURVEYS carried out or commenced in the 6 months 1 January to 30 June 2016

Operator	Authorisation	Contractor	Vessel	2D Line Km	3D Km ²	Survey Area		
Woodside Energy	PPL2/16	PGS Exploration	M/V Ramform Vanguard	Nil 1584		Granuaile Porcupine Basin		
Woodside Energy	PPL2/16	PGS Exploration	M/V Ramform Vanguard	Nil	145	Bréanann Porcupine Basin		
CGG	PPL5/16	CGG	Oceanic Endeavour	Nil	526	South Porcupine Basin		

Actual versus forecast levels of exploration activity – IOSEA5 area Exploration and Production activities (i.e. seismic surveying, exploration, appraisal and development / production drilling) forecast in the IOSEA5 area between 2015 and 2020 (from Table 2.1 of IOSEA5 Environmental Report)

	2015		2016		2017		2018		2019		2020	
Type of activity	Min	Мах	Min	Мах	Min	Max	Min	Max	Min	Max	Min	Мах
2D seismic survey (km)	0	25000	0	25000	0	25000	0	25000	0	25000	0	25000
3D seismic survey (km ²)	0	20000	0	20000	0	20000	0	20000	0	20000	0	20000
Numbers of wells	0	10	0	10	0	10	0	10	0	10	0	10



Seismic Surveys in the IOSEA5 Area

Drilling in the IOSEA5 Area

