

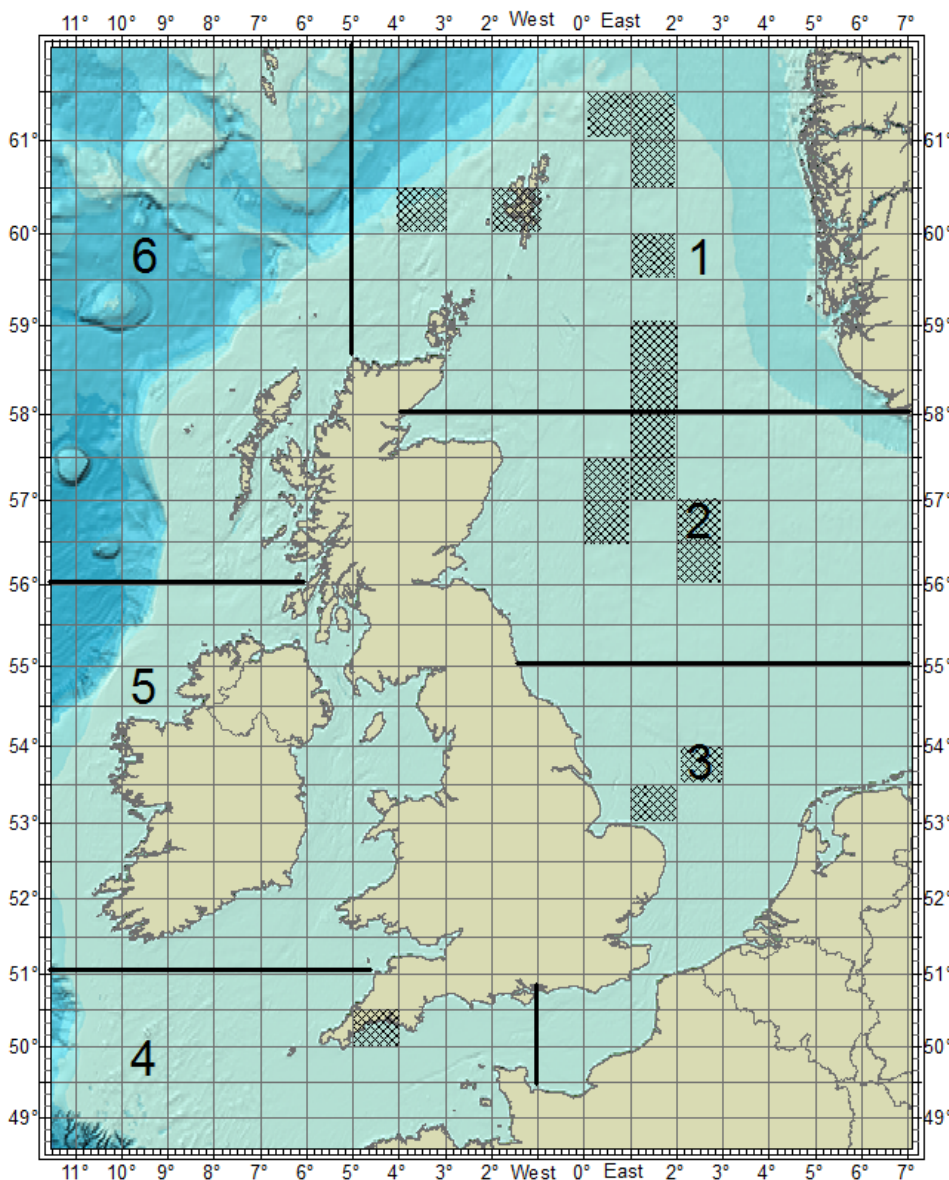
# The Kingfisher Bulletin

## Offshore News

OIL AND GAS

14 JUNE 2018 | ISSUE 12

Shaded blocks indicate activity.



What's inside?

### New Hazards (p.3)

#### Area 1 (p.4-11)

1. Notice to Fishermen
2. Seabed Activity

#### Area 2 (p.12-15)

1. Notice to Fishermen
2. Seabed Activity

#### Area 3 (p.16)

1. Notice to Fishermen
2. Seabed Activity

#### Area 4 (N.A)

#### Area 5 (N.A)

#### Area 6 (N.A)

#### Extra... (p.17-23)

1. Rig List
2. Anchor List
3. Survey List

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## Support

The Kingfisher Bulletin is provided by the Kingfisher Information Service of Seafish, to promote awareness of offshore hazards to fishermen, new structures and zones and conflicting offshore operations. Support for publication of oil and gas industry information in this Bulletin is part of the project 'Fishing Safely in Changing European Waters 2016-2019' promoted by FLTC Services Ltd. The European Union through the European Maritime and Fisheries Fund and the Scottish Government have awarded substantial grants towards the costs of the project.



For further information, please visit: [www.fishsafe.eu/en/contact-us/funding](http://www.fishsafe.eu/en/contact-us/funding)

## Information

Information contained within the Kingfisher Bulletin comes from a variety of sources, although is in the majority, supplied directly to Kingfisher from the offshore operating industry, or government licensing authorities.






Coordinates within the Kingfisher Bulletin are converted into World Geodetic System 1984 (WGS84) and displayed as degrees, minutes and decimal minutes, to three decimal places (ddd°mm.mmm'). Route or boundary coordinates may be simplified for ease of use.

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## New Hazards



### Area 1 Hazard List

Hazard Type	Position	Issue Date	Contact Details	Map
Murchison Wellhead Protection Structure 7.5m x 7.5m x 7.5m Well 211/19-2	61°23.382'N 01°44.050'E	03 May 2018	Carolyn Toshney <a href="mailto:Carolyn.Toshney@cnrl.com">Carolyn.Toshney@cnrl.com</a>	
Significant free-spans have been identified along the PL1043 Dunbar to Alwyn pipeline	60°38.646'N 01°39.193'E 60°38.713'N 01°39.207'E 60°39.017'N 01°39.267'E 60°39.033'N 01°39.271'E	31 May 2018	David Colliard, email: <a href="mailto:david.colliard@total.com">david.colliard@total.com</a>	
New suspended wellhead on seabed (211/23b-11)	60° 38.713' N 1° 39.207' E	15 May 2018	Fairfield Energy, Tel: +44 (0)1224 320708	
Removal of protective structure for wellhead 211/19-2 (8m x 8m x 7m)	60° 39.017' N 1° 39.267' E	3 May 2018	CNR International Ltd, Tel: +44 1224 303600	
One 8in pipeline and one 6in umbilical Exposed Laggan and Tormore fields	60° 39.033' N 1° 39.271' E	11 Jan 2018	TOTAL, Tel: +44 (0)1224 298172	

### Area 2 Hazard List

Hazard Type	Position	Issue Date	Contact Details	Map
Sunken buoy with heavy weight and anchor	57°00.668'N 000°05.671'W	31 May 2018	Raymond Hall, Tel: 01224 646944 email: <a href="mailto:R.Hall@sff.co.uk">R.Hall@sff.co.uk</a>	

### Area 3 Hazard List

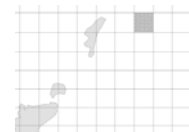
Hazard Type	Position	Issue Date	Contact Details	Map
Significant Pipeline Span on PL21 from Hewett to Bacton (37m long and 1m high)	53°01.482'N 001°43.673'E	15 May 2018	ENI, Tel: 020 7344 6342	
Concrete mattresses installed on seabed to stabilise a pipeline span	53°06.662'N 001°44.180'E and 53°06.668'N 001°44.165'E	19 April 2018	ENI, Tel: 020 7344 6342	

## Notice to Fishermen

First Published: 14 June 2018 | Latest Update: 14 June 2018

## Fishing Hazard – Ninian Removal of Unexploded Ordnance

An item of potential unexploded ordnance (UXO) is to be removed from its position on the seabed inside the Ninian Central Platform 500m zone. Once positive identification is carried out, if confirmed as UXO it will be remotely towed to a safe area approx. 2km to the South-East, placed back on the seabed and detonated by controlled explosion to remove the hazard.



A local exclusion zone (between current pUXO location & disposal area) will be in place once removal activities commence, with a 1 NM exclusion zone in place during the controlled detonation. Notifications will be made via IMM VHF channel 16 during the operation.

Removal of the potential UXO will take place over a 3 day period between 17-30 June 2018,. Activities will be carried out by the following vessel: Geosund ROVSV and associated RHIB daughter craft

The co-ordinates for the operation are listed below:

	Coordinates
Current pUXO position	60°51.340'N 01°28.257'E
Seabed disposal / detonation area	60°50.530'N 01°29.882'E

For further information: Carolyn Toshney, CNR International Ltd, Tel: +44 1224 303600 email: [Carolyn.Toshney@cnrl.com](mailto:Carolyn.Toshney@cnrl.com)

## Notice to Fishermen

First Published: 31 May 2018 | Latest Update: 31 May 2018

## Fishing Hazard – Free-spans on Dunbar to Alwyn pipeline



Significant free-spans have been identified along the PL1043 Dunbar to Alwyn pipeline

Position	Length (m)	Height (m)
60° 38.646' N 1° 39.193' E	32	0.9
60° 38.713' N 1° 39.207' E	25	0.8
60° 39.017' N 1° 39.267' E	11	0.8
60° 39.033' N 1° 39.271' E	11	1.0



For further information: David Colliard, Total E&P UK Limited, Tel: 01224 298172 email: [david.colliard@total.com](mailto:david.colliard@total.com)

## Notice to Fishermen

First Published: 15 May 2018 | Latest Update: 15 May 2018

## New Suspended Wellhead – Structure on seabed



Please be advised that the suspended wellhead below is a potential hazard to fishing, as there is a structure on the seabed.

Structure	Operator	Position
211/23b-11	Fairfield Energy	61°16.210'N 001°25.962'E



For further information: Fairfield Energy, Tel: +44 (0)1224 320708

## Notice to Fishermen

First Published: 11 January 2018 | Latest Update: 11 January 2018

## Fishing Hazard – Laggan / Tormore Pipelines – Orka Voe



One 8in pipeline and one 6in umbilical from Laggan and Tormore fields are currently exposed in the nearshore section close to landfall. The exposed sections are in the following area:

60° 29.319' N	1° 15.213' W
60° 29.304' N	1° 15.108' W
60° 28.993' N	1° 15.281' W
60° 29.007' N	1° 15.386' W

Where water depth is between 20 and 35m. Fishing activities shall be avoided in this area, as there is potential for snagging.



For further information: David Colliard, Total E&P UK Limited, Tel: 01224 298172 email: [david.colliard@total.com](mailto:david.colliard@total.com)

## Notice to Fishermen

First Published: 03 May 2018 | Latest Update: 03 May 2018

## Fishing Hazard – Murchison Wellhead Protection Structure



## Removal of protective structure for wellhead 211/19-2 and wet storage on the seabed.

The 7.5m x 7.5m x 7.5m wellhead protection structure to be removed from the foundation structure and wet-stored alongside the space-frame on the seabed. The 8m x 8m x 7m space-frame structure remains in position fixed to the seabed with foundation piles. Both structures are considered a significant hazard due to exposed guideposts etc



Removal of the protective structure will take place in the period after 26 May 2018 and will remain in this configuration until full removal in 2019.

	<b>Coordinates</b>
Well 211/19-2	61°23.382'N 01°44.050'E

For further information: Carolyn Toshney, CNR International Ltd, Tel: +44 1224 303600 email: [Carolyn.Toshney@cnrl.com](mailto:Carolyn.Toshney@cnrl.com)

## Notice to Fishermen

First Published: 14 June 2018 | Latest Update: 14 June 2018

## Abandoned Wellheads – Structures Removed from Seabed

Please be advised that the abandoned wellhead below, should be removed from your Kingfisher Yellow Card January 2018.

<b>Structure</b>	<b>Operator</b>	<b>Position</b>
9/03b-6Z	Whalsay Energy Ltd	59°56.081'N 001°31.579'E
9/03b-7	Whalsay Energy Ltd	59°56.062'N 001°33.000'E
9/03b-7Z	Whalsay Energy Ltd	59°56.062'N 001°33.000'E



For further information: Marcelle Wynter, DECC, Tel: 0300 0671616 [Marcelle.wynter@oga.gsi.gov.uk](mailto:Marcelle.wynter@oga.gsi.gov.uk)

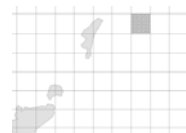
## Seabed Activity

First Published: 14 June 2018 | Latest Update: 14 June 2018

## Alwyn UKCS 3/9a – ROV Intervention

The The ROVSV Skandi Carla (call sign: C6RX4) will be carrying out ROV intervention activities in UKCS Block 3/9a between 14<sup>th</sup> June until 30<sup>th</sup> June approx., within the following 500m safety zones

Alwyn NAA	60° 48.52' N 01° 44.14' E
Alwyn NAB	60° 48.57' N 01° 44.01' E



Some activities will take place outside any 500m safety zone along the PL1044 pipeline, with restricted manoeuvrability

Location 3	60° 48.39' N 01° 43.32' E
Location 4	60° 48.15' N 01° 42.81' E
Location 5	60° 47.95' N 01° 42.37' E
Location 6	60° 47.73' N 01° 41.93' E

Please exercise caution in this area.

For further information: David Colliard, Total E&P UK Limited, Tel: 01224 298172 email: [david.colliard@total.com](mailto:david.colliard@total.com)

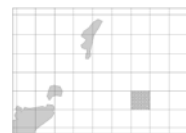
## Seabed Activity

First Published: 19 April 2018 | Latest Update: 29 May 2018

## Miller Field – Miller Platform Decommissioning Activity

The Miller jacket will be leaving the field location ~14th July which will leave behind the derogated jacket footings (20metres height).

Position: 58°43.304'N 001°24.005'E



For further information: Alistair Bridges, Petrofac Facilities Management Ltd, +44(0)1224 345425 [alistair.bridges2@petrofac.com](mailto:alistair.bridges2@petrofac.com)

## Decipher Production Ltd – Orlando Field - Development

The Orlando Field is located in Block 3/3b in the Northern North Sea approximately 390km North-Northeast of Aberdeen and 11km North East of the Ninian Central Platform (NCP) in a water depth of 142m. The Orlando field will be developed as a subsea tie-back to the NCP, operated by Canadian Natural Resources International (CNRI).



The subsea pipeline system will comprise an 8" / 12" Pipe in Pipe (PiP) production pipeline connected between the Orlando production well (P1) and the new Subsea Isolation Valve (SSIV) structure situated within the NCP 500m safety zone. The pipeline is connected at either end using rigid tie-in spools. A flexible free-hanging catenary production riser will connect the SSIV structure to the NCP topside production facilities.

There are 2 main pipeline crossings, PL1526 owned and operated by Total, situated approximately mid-way along the pipeline route and PL917 which is owned and operated by CNRI which is located within the NCP 500m safety zone.

The Electric/Hydraulic/Chemical (EHC) umbilical will be formed in 2 parts, a free-hanging catenary dynamic umbilical will connect the NCP topside controls system to the SSIV structure and a second static umbilical will be installed between the SSIV structure and the Orlando production well (P1).

The free-hanging production riser and dynamic umbilical will be anchored to the seabed at their respective Touch Down Points via 'riser bases'. The 'riser bases' are simple steel gravity structures that restrain the free-hanging products. The umbilical will follow the pipeline route offset along the majority of the length by 30m except at either end and at the crossing locations where separation will be reduced to a minimum of 1m.

The pipeline and umbilical will be trenched to approx. 1.6m below the seabed with the untrenched ends, and crossing locations protected by a combination of concrete mattresses and rockdump. The rigid spools and controls jumpers will be protected by concrete mattresses. No protection is required on the production riser or dynamic umbilical as these are well within the NCP 500m safety zone, however concrete mattresses will be placed at intervals for stability purposes only.

Vessel activity in the area is as follows::

Vessel	Activity	Start Date	End Date
Normand Pioneer	Fly-By Umbilical Pre-Cut Trench	03/07/2018	14/07/2018
Normand Vision	Riser Base, Riser & Umbilical Installation	12/07/2018	29/07/2018
Deep Energy	Pipelay & SSIV Installation	02/08/2018	15/08/2018
EDT Hercules	Pre-Commissioning, Metrology & Survey Support	11/08/2018	26/08/2018
Normand Pioneer	Pipeline Trenching	12/08/2018	18/08/2018
Normand Pioneer	Pipeline & Umbilical Back-Filling	18/08/2018	25/08/2018
TBC	Rock Dumping	01/09/2018	15/09/2018
Deep Explorer	Diving - Tie-Ins etc	19/09/2018	02/10/2018

The co-ordinates for the proposed operations are listed below::

Location	Coordinates
NCP Platform Centre	60°51.376'N 001°28.042'E
Umbilical Riser Base	60°51.398'N 001°28.256'E
Production Riser Base	60°51.446'N 001°28.179'E
SSIV Structure	60°51.487'N 001°28.222'E
PL917 Crossing	60°51.567'N 001°28.216'E
PL1526 Crossing	60°53.844'N 001°30.465'E
Orlando Well (P1)	60°56.671'N 001°33.686'E

For further information: Steve Dempster, Petrex Developments Ltd, Tel +44 1224 452 125, e-mail: [sdempster@petrex.co.uk](mailto:sdempster@petrex.co.uk)

## Leadon Development – Decommissioning

**Maersk Oil UK Ltd have commenced decommissioning activities associated with the removal of the Leadon subsea infrastructure in Block 9/14 of the UK Continental Shelf.**



The 2018 Decommissioning campaign at Leadon commences in June, with activities ongoing through to August. The Maersk Inventor CSV will arrive in Field in mid-June to complete the below workscope:

- 6x Bundle Cuts – (3x cuts on Bundle Section A – 46”, 3x cuts on Bundle Section B – 51”;
- Preparation of 3x Leadon Towhead Structures for recovery;
- Recovery of 2x Leadon Towhead Structures:
  - Mid Line Structure;
  - South Towhead (B).
- Recovery of 4x Subsea Xmas Trees @ Leadon North;
- Debris Clearance @ Leadon North, South and Mid Line locations.

The remaining Leadon North Towhead and bundle sections will be decommissioned during future offshore campaigns in accordance with the approved Decommissioning Programme.

**A summary of the upcoming activities is as follows:**

Location	Block	Coordinates	Activity	Schedule
Leadon North Towhead	9/14a	59°34.708'N 01°39.323'E	1x Bundle Cut	June - Sept 2018
Leadon South Towhead	9/14a	59°32.562'N 01°39.495'E	1x Bundle Cut	June - Sept 2018
Leadon Midline Structure	9/14a	59°33.708'N 01°39.403'E	4x Bundle Cuts	June - Sept 2018
Leadon Midline Structure	9/14a	59°33.708'N 01°39.403'E	Towhead Recovery	June - Sept 2018
Leadon South Towhead	9/14a	59°32.562'N 01°39.495'E	Towhead Recovery	June - Sept 2018
Leadon North Towhead	9/14a	59°34.708'N 01°39.323'E	4x Xmas Tree Recovery	June - Sept 2018

For further information: Steph Kiltie, PDI Ltd, Tel +44(0)1224 562 193 email [steph.kiltie@pdi-ltd.com](mailto:steph.kiltie@pdi-ltd.com)

## Tormore, Laggan, Edradour, PLEM, Glenlivet – ROV Intervention

**The The ROVSV Skandi Carla (call sign: C6RX4) will be carrying out ROV intervention activities in UKCS Block 205/5a, 206/1a, 206/3d and 214/30a between June 4th until June 20th approximately, within the following 500m safety zones**



Glenlivet	UKCS 214/30a	61° 04.60' N 02° 05.42' W
Edradour PLEM	UKCS 206/3d	60° 54.66' N 02° 32.26' W
Laggan	UKCS 206/1a	60° 56.67' N 02° 53.62' W
Tormore	UKCS 205/5a	60° 52.28' N 03° 08.23' W

Some activities will take place outside any 500m safety zone, with restricted manoeuvrability Edradour CEM  
UKCS 206/4a 60° 55.47' N 02° 15.28' W

Please exercise caution in this area.

For further information: David Colliard, Total E&P UK Limited, Tel: 01224 298172 email: [david.colliard@total.com](mailto:david.colliard@total.com)

**Telford Field** – Flexible Pipeline installation and associated works

**Nexen Petroleum intends to undertake pipeline works in the Telford Field area, commencing 22nd June 2018.**

The works include the installation of two flexible pipelines, ~2.5km and 2.0km respectively, and tie-in spools between the Central Telford Manifold and the Marmion/West Tee, and the Marmion/West Tee and Scott Platform. A small valve skid will also be installed at the Marmion/West Tee.



Vessel activity in the area is as follows:

Operations	Vessel	Mobilisation	In Telford Field
Flexible Lay	Seven Arctic	25/06/18	28/06/18 – 02/07/18
Rock Dumping	Simon Stevin	05/07/18	07/07/18 – 13/07/18
Spools & Valve Skid Install & Tie-Ins	Seven Falcon	13/07/18	14/07/18 – 30/07/18

Key coordinates:

Field Location	Location
Scott Field - Platform	58°17.360'N 000°12.134'E
Central Telford Field - Manifold	58°13.071'N 000°14.962'E
Marmion/West Telford Field - Tee	58°14.300'N 000°12.522'E
Proposed DBB Valve Skid	58°14.300'N 000°12.506'E

*For further information: Scott Turner, Nexen Petroleum UK Ltd, +44(0)7818 436003*

**Balmoral Area** – Well Intervention

**Premier Oil UK will commence well intervention work in June 2018 on the Balmoral Oil and Gas Field in the Central North Sea (Block 16/21). The work involves the intervention of a number of wells at the following locations:**

Vessel: Seawell Schedule: 10th July – 9th September 2018



Key coordinates:

Well Number	Location
16/21b-4A	58°12.666'N 001°10.567'E
16/21a-16	58°13.711'N 001°08.965'E
16/21a-17z	58°10.355'N 001°02.445'E
16/21a-26z	58°10.732'N 001°01.144'E

*For further information: Mike Swankie, Premier Oil, Tel +44 (0) 1224 618965, [mSwankie@premier-oil.com](mailto:mSwankie@premier-oil.com)*

**Bentley Field Well Abandonment** – Wells 9/03b-6Z and 9/03b-7 & 7Z

**The CSV Normand Clipper will be mobilising to the Bentley Field to fully plug & abandonment the suspended wells 9/03b-6Z and 9/03b-7 & 7Z. The work involves the placement of a cement plug and removal and recovery of the well heads and protection structures leaving a clean seabed on completion.**

The work is planned to commence on the 23rd May 2018 for a period of up to 9 days. The operations will be undertaken from the CSV Normand Clipper.



The co-ordinates for the operations are listed below:

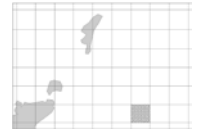
	Coordinates
Well 9/03b-7& 7Z	59°56.062'N 001°33.000'E
Well 9/03b-6Z	61°11.713'N 000°43.567'E

*For further information: Sarah Kirkwood, Whalsay Energy Ltd, Tel: +44 1224 619246, Email: [sarah.kirkwood@whalsayenergy.com](mailto:sarah.kirkwood@whalsayenergy.com)*



**Utgard Field – Development Activity**

Equinor and its licence partners will soon start development of the Utgard offshore gas condensate field, which is a trans-boundary field located in the central North Sea in Block 15/8 of the NCS and Block 16/18a of the UKCS. The development will be by means of two or possibly three wells drilled through a 4-slot template located on the NCS approximately 450 metres to the east of the median line.



The template is of an over-trawlable design to minimise any potential harm to fishing activities.

In addition, drilling activities are scheduled at this location for the period between 1<sup>st</sup> August and 15<sup>th</sup> November 2018. Further details will be provided once available.

Installation of the template is scheduled to commence around the 28<sup>th</sup> May and continue through to 15<sup>th</sup> June 2018.

The operations will be undertaken from the following vessels:  
Seven Arctic CSV

The co-ordinates for the proposed operations are listed below:

Well/Template	Coordinates
	58°21.967'N 001°32.933'E

For further information: Euan Simpson, Equinor (Production) UK Limited, tel: 07557 161705, email: [eusi@equinor.com](mailto:eusi@equinor.com)

**Lancaster Field – Well Intervention Operations**

Well intervention operations are being undertaken in the Lancaster field to the west of Shetland.



Well	Coordinates
Lancaster 205/21a-6	60°12.000'N 03°51.757'W
Lancaster 205/21a-7Z	60°11.995'N 03°51.731'W

1. Firstly, Petrofac informs of operations to be undertaken by the Transocean Paul B Loyd Jr (PBLJ) anchored semi-submersible drilling rig. Operations are currently expected to commence on 14th April 2018 and expected to last approximately 60 days.
2. Secondly, Bluewater and Hurricane informs of further works will also be undertaken by the Normand Installer and the Viking Neptune, lasting until October 2018. These operations will start with the installation of an FPSO mooring system, with activities involving the wet storage of mooring equipment, the installation of mooring piles, tensioning of mooring lines and tie in of a mooring buoy.

These operations will all be centred around the future FPSO location (60°10.794'N, 003°52.196'W), extending up to 1.3 km from this position. Activities will be concentrated on three mooring clusters, positioned to the north (60°11.393'N, 003°52.537'W), east (60°10.641'N, 003°50.991'W) and southwest (60°10.291'N, 003°53.179'W) of the FPSO locations.

For further information: Mark Ryan, Petrofac, Tel: +44(0)1224 247000 email: [mark.ryan@petrofac.com](mailto:mark.ryan@petrofac.com) and Kirsty McWilliam Lancaster EPS, M +44 7956 019208, Email: [Kirsty.McWilliam@hurricaneenergy.com](mailto:Kirsty.McWilliam@hurricaneenergy.com)

**Diving Activities – Ellon, Forvie, Grant, Islay, Jura**

The DSV Seven Pelican (call sign: C6RE7) will be carrying out diving activities in UKCS Block 3/15 between May 28th until June 30th approximately, within the following 500m safety zones.



Islay	UKCS Block 3/15a	60° 33.47' N	01° 56.69' E
Jura	UKCS Block 3/15a	60° 32.66' N	01° 54.07' E
Ellon & Grant	UKCS Block 3/15b	60° 35.88' N	01° 48.44' E
Forvie North Xmas Tree	UKCS Block 3/15c	60° 30.74' N	01° 50.12' E
Forvie North Manifold	UKCS Block 3/15d	60° 31.41' N	01° 52.13' E

For further information: David Colliard, Total E&P UK Limited, Tel: 01224 298172 email: [david.colliard@total.com](mailto:david.colliard@total.com)

## Seabed Activity

First Published: 03 May 2018 | Latest Update: 03 May 2018

**North Ninian – Decommissioning Activity**

The Ninian North platform ceased production in 2017. As part of the next phase of decommissioning, the platform is being down-manned and will become an unmanned installation from April 2018.



The Ninian North platform will remain unmanned until decommissioning / removal of the topsides in 2019. Existing NavAids (white & red lights, fog warning, radar) are being replaced by automatic units consisting of white lights only. Platform 500m exclusion zone is still in force and the ERRV remains on location in the Ninian Field.

The platform down-manning is taking place 26 April 2018, new NavAids will be in place from 22 April 2018. The platform will remain unmanned until decommissioning in 2019.

VOS Grace ERRV Grampian Contender ERRV

The co-ordinates for the operations are listed below:

	<b>Coordinates</b>
Ninian North platform	60°54.333'N 01°25.172'E

**For further information:** Ceri Wheaton, CNR International Ltd, Tel: +44 1224 303600 email: [Ceri.Wheaton@cnrl.com](mailto:Ceri.Wheaton@cnrl.com)

## Seabed Activity

First Published: 03 May 2018 | Latest Update: 03 May 2018

**Murchison – Decommissioning Activity**

Well intervention works are to be carried out at the Murchison wellhead 211/19-2, to fully plug & abandon the well.



Light Well Intervention Vessel (LWIV) at the suspended wellhead 211/19-2 to fully plug & abandon the well. The work includes the removal of the upper protective structure and recovery of the wellhead. The remaining sections of the space-frame & protective structure will be left on the seabed until 2019 decommissioning.

The work is planned to commence on 26 May 2018, for a period of up to 38 days. The operations will be undertaken from the following vessel: Helix Seawell LWIV

The co-ordinates for the operations are listed below:

	<b>Coordinates</b>
Well 211/19-2	61°23.382'N 01°44.050'E

**For further information:** Carolyn Toshney, CNR International Ltd, Tel: +44 1224 303600 email: [Carolyn.Toshney@cnrl.com](mailto:Carolyn.Toshney@cnrl.com)

## Seabed Activity

First Published: 03 May 2018 | Latest Update: 03 May 2018

**Toni/Thelma – Development & Diving Activity**

Well intervention works are to be carried out at the Toni and Thelma subsea drill centres, including diving activity.



Light Well Intervention Vessels (LWIV) will be carrying out work at the Toni manifolds, including installation of a new Xmas tree inside the structure; LWIV well workover at Thelma manifold; diving activity for the installation and testing of new flexible pipe between Toni production manifold and Toni/Thelma towhead, involving multiple DSV transits between Toni and Thelma locations, between 6km & 18km South of the Tiffany platform.

The Toni LWIV is scheduled for 4<sup>th</sup> to 21<sup>st</sup> May, Thelma LWIV from 19<sup>th</sup> to 26<sup>th</sup> May and DSV scope between 8<sup>th</sup> & 22<sup>nd</sup> May 2018. The operations will be undertaken from the following vessels: Well Enhancer LWIV. Helix Seawell LWIV. Bibby Topaz DSV

The co-ordinates for the operations are listed below:

	<b>Coordinates</b>
Toni production manifold	58°25.966'N 01°17.081'E
Toni water injection manifold	58°25.907'N 01°17.222'E
Toni/Thelma towhead	58°25.886'N 01°17.312'E
Thelma production manifold	58°22.435'N 01°18.530'E

**For further information:** Carolyn Toshney, CNR International Ltd, Tel: +44 1224 303600 email: [Carolyn.Toshney@cnrl.com](mailto:Carolyn.Toshney@cnrl.com)

## Pelican Field Programme – Well Abandonment

TAQA Bratani is conducting well abandonment and drilling operations on a number of wells within the Pelican field.

Operations will be conducted by the Paragon MSS1 semi-submersible drilling rig, with operations expected to commence on March 1st and last for over a year. The rig will be anchored in a central location (61°02'00.705"N 1°07'45.057"E) and then skidded between wells as required.



The Paragon MSS1 is located in the Pelican field UKCS Block 211/26a, as per the details below.

Well Number	Location	Start / Finish	Description of Work
PU-p14	61°02.022'N 001°07.700'E	01/03/18 – 28/06/18	Abandon wellbore and drill sidetrack well. Run Xmas tree
PU-p16S1	61°02.046'N 001°07.724'E	28/06/18 – 24/08/18	Reservoir Abandonment. Remove existing Xmas tree
PU-P15 & PU-P15S1	61°02.037'N 001°07.719'E	24/08/18 – 10/10/18	Reservoir Abandonment. Remove existing Xmas tree
PU-P11	61°02.026'N 001°07.766'E	10/10/18 – 09/11/18	Reservoir Abandonment. Remove existing Xmas tree
PU-P21	61°01.997'N 001°07.729'E	09/11/18 – 08/12/18	Reservoir Abandonment. Remove existing Xmas tree
PU-P10BS2	61°01.984'N 001°07.740'E	08/12/18 – 28/01/19	Reservoir Abandonment. Remove existing Xmas tree
PU-P12	61°02.017'N 001°07.760'E	28/01/19 – 26/02/19	Reservoir Abandonment. Remove existing Xmas tree

For further information: Peter Mayo, TAQA Bratani, Tel: 01224 275556, email: [Peter.Mayo@taqaglobal.com](mailto:Peter.Mayo@taqaglobal.com)

## Notice to Fishermen

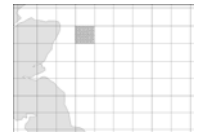
First Published: 31 May 2018 | Latest Update: 31 May 2018

## Fishing Hazard – Sunken Buoy with heavy Weight and Anchor



Sunken buoy with heavy weight and anchor – this has been snagged and dropped to the seabed (with the skipper having to cut half his net away)

Position: 57°00.668'N 000°05.671'W



For further information: Raymond Hall, SFF, Tel: 01224 646944 email: [R.Hall@sff.co.uk](mailto:R.Hall@sff.co.uk)

## Notice to Fishermen

First Published: 22 February 2018 | Latest Update: 08 March 2018

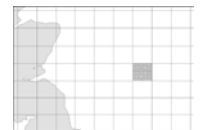
## Fishing Hazard – 15mt Buoy



A 15 mt Buoy from mooring line 3 appears to have Dextron fiber grommets that failed, those grommets two of them were secured to the fiber mooring line in the main mooring system of the rig. A 85 ton shackle can be seen on the bottom end of the buoy.

56°23.735'N 02°15.315'E

The purpose of the buoy was to support the mooring rope above the subsea assets. It has been confirmed that all mooring are still fully in tack and service provider of mooring analysis confirmed that with the buoy not supporting the upper end of the fiber mooring line there should be no contact with any assets.



For further information: Erwin C Guidry, Ocean Valiant, Tel: +44 1224 501 435 email: [valiant\\_oim@dodi.com](mailto:valiant_oim@dodi.com)

## Seabed Activity

First Published: 31 May 2018 | Latest Update: 31 May 2018

## Janice, James and Affleck Fields – Decommissioning

**Maersk Oil UK Ltd have commenced decommissioning activities associated with the removal of the Janice 'A' FPU in Block 30/17a of the UK Continental Shelf.**

The Janice FPU and its associated moorings and anchors were towed/recovered in Q3 2016. With flexible products, structures and mattresses recovered throughout 2017 by the Maersk Master and Maersk Achiever AHTS.

2018 Decommissioning works at Janice, James and Affleck will take place in July and August, with the Maersk Inventor CSV arriving in field to complete the below workscope:

- Pile Cutting at Janice Oil Export SSIV;
- Recovery of Janice Oil Export SSIV;
- Cutting & Recovery of ~120m of Janice Oil Export Pipeline/Spools;
- Recovery of 4x Mid-Water Arch Clumpweight Ballast Blocks;
- Recovery of 2x Mid-Water Arch Clumpweight Base Frames;
- Recovery of 1x Water Injection Manifold;
- Debris Clearance @ Janice, James & Affleck (mattress recovery etc.).

The remaining subsea infrastructure will be decommissioned during future offshore campaigns in accordance with the approved Decommissioning Programme.



Facility / Installation	Block	Coordinates	Activity	Schedule
Janice 'A' FPU	30/17a	56°23.876'N 02°15.004'E	Pile Cutting & Oil Export SSIV Recovery	June - Sept 2018
Janice Drill Centre (500m zone)	30/17a	56°23.706'N 02°15.316'E	Janice WI Manifold Recovery	June - Sept 2018
Janice 'A' FPU Site	30/17a	56°23.876'N 02°15.004'E	Debris Clearance	June - Sept 2018
Janice Drill Centre (500m zone)	30/17a	56°23.706'N 02°15.316'E	Debris Clearance	June - Sept 2018
Janice Drill Centre (500m zone)	30/17a	56°23.706'N 02°15.316'E	MWA Clumpweight Recovery	June - Sept 2018
James Drill Centre (500m Zone)	30/17a	56°21.485'N 02°18.835'E	Debris Clearance	June - Sept 2018
Affleck Drill Centre (500m Zone)	30/19a	56°26.552'N 02°42.077'E	Debris Clearance	June - Sept 2018

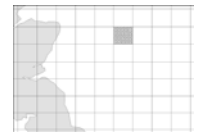
A summary of the upcoming activities is as follows:

For further information: Steph Kiltie, PDI Ltd, Tel +44(0)1224 562193 email [steph.kiltie@pdi-ltd.com](mailto:steph.kiltie@pdi-ltd.com)

## Montrose BLP Project – Development Operations

### Offshore campaigns upcoming;

- DSV Seven Eagle – ETA in field 8th June. Support subsea construction activities between Shaw production and Shaw Water Injection Drill centres and control system commissioning testing. (Duration 7 days).
- Tideway Flintstone – ETA in field 18th June. Undertake rock place of WI control umbilical between Shaw production and Shaw Water Injection Drill centres. (Duration 2 days).
- Guard vessel is currently on location and will provide guard duty support until the rock dump scope is completed.



Note. HSE recognised 500m Safety Zones are now in force at the following:

- Cayley drill centre 57°25.167'N 01°13.804'E
- Cayley/Montrose intermediate towhead 57°26.160' N 01°18.420' E
- Shaw production drill centre 57°17.813'N 01°21.755'E
- Shaw WI drill centre 57°17.369'N 01°22.299'E

Key Coordinates	
57°27.068'N 01°23.214'E	Montrose BLP (500m Safety Zone)
57°25.167'N 01°13.804'E	Cayley Drill Centre (500m Safety Zone)
57°25.924'N 01°17.332'E	44" Langed Crossing – located between Montrose BLP and Cayley Drill Centre– Fishing Hazard stay clear (concrete mattresses)
57°26.671'N 01°20.804'E	24" GAEL Crossing - located between Montrose BLP and Cayley Drill Centre– Fishing Hazard stay clear (concrete mattresses)
57°17.813'N 01°21.755'E	Shaw production Drill Centre
57°17.369'N 01°22.299'E	Shaw Water Injection Drill Centre
57°25.757'N 01°22.760'E	24" GAEL crossings- located between Montrose BLP and Shaw Production Drill Centre – Fishing Hazard stay clear (concrete mattresses)
57°27.054'N 01°22.987'E	14" Forties Crossings- located between Montrose BLP and Shaw Production Drill Centre (inside Montrose 500m zone)
57°22.00'N 01°20.25'E	CATS T2

For further information: James Harper, Repsol Sinopec Tel: 01224352855 email: [James.Harper@repsolsinopecuk.com](mailto:James.Harper@repsolsinopecuk.com) James Smith Tel: 01224353458 email: [James.Smith@repsolsinopecuk.com](mailto:James.Smith@repsolsinopecuk.com)

## Gannet E Field – Flexibles, Umbilicals & Structure Installations

### North Sea Atlantic – Infield on 28/06/18 – 03/07/18 (Carrying out Flexibles, Umbilical and Structures installation)

Working in the following locations :

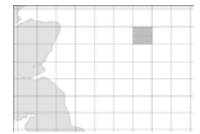
Location	Coordinates
Gannet 'E' Tie In Manifold	57°05.485'N 000°50.944'E
Valve Skid	57°05.542'N 000°51.038'E
Well GE P-01	57°05.496'N 000°50.924'E
Gannet 'E' Tie-In Manifold	57°05.473'N 000°50.914'E
Well GE P-02	57°05.485'N 000°50.918'E
Gannet 'E' Tie-In Manifold	57°05.473'N 000°50.914'E
Well GE P-03	57°05.472'N 000°50.967'E
Gannet 'E' Tie-In Manifold	57°05.473'N 000°50.914'E
Riser Base SY9515G	57°05.040'N 000°53.401'E
Gannet 'E' Towhead/Manifold	57°05.485'N 000°50.944'E



For further information: Victoria Munro, Shell UK Limited, Tel: +44 1224 887804 email: [v.munro@shell.com](mailto:v.munro@shell.com)

## Culzean Field – CATS T5

Culzean Project hereby informs that they intend to carry out construction activities within the Culzean Field Development Area (Block 22/25A) and extending into other areas towards the CATS pipeline.



The platform installations shall be conducted by the SSCV Thialf with a planned installation window of 22nd June to 31st July 2018.

The above work will take place at the following locations:

Location	Coordinates
Culzean ULQ Platform Centre	57°11.415'N 001°54.473'E
Culzean CPF Platform Centre	57°11.475'N 001°54.582'E
Culzean WHP Platform Centre	57°11.545'N 001°54.683'E

For further information: Kevin Grant, Tel: +44 (0) 1224 599416, Email: [kevin.grant@maerskoil.com](mailto:kevin.grant@maerskoil.com)

## Catcher Area – Development Project

Subsea construction activities on behalf of Premier Oil UK Limited on the Catcher Area Development (including the Catcher, Burgman and Varadero fields) located in block 28/9a of the UKCS 56°46.200'N 00°42.783'E



The FPSO BW Catcher is now in position and connected to the Submerged Turret Production Buoy and Moorings (turret centre 56°46.207'N and 00°42.765'E). The ERRV / Standby Vessel VOS Famous is monitoring the Catcher Area developments 500m safety zone throughout operations.

Three (3) x 3.5km pipeline bundles have been installed on the seabed between the FPSO location and Drill Centres locations;

Structure	Coordinates
Catcher Drill Centre	56°46.298'N 00°46.277'E
Varadero Drill Centre	56°48.356'N 00°42.300'E
Burgman Drill Centre	56°44.567'N 00°40.623'E

The FPSO and each drill centre has an approved HSE 500m safety zone in force.

Subsea Activity

The DSV Seven Falcon is scheduled to return to the Catcher field area early June and will be conducting diving operations around the Catcher Drill Centre location for a period of approximately one month.

Spoil deposit

There is a spoil deposit adjacent to the Curlew Deep Gas Diverter structure, 6.0m diameter and 2.5m high, located at 56°43.495'N 01°42.944'E

Drilling

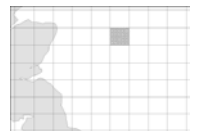
The ENSCO 100 drilling rig is currently located at the Catcher Drilling Template 2 (56°46.321'N & 00°46.296'E) through to the end of May 2018, when it will relocate to the Burgman field end of May / early June until the end of Q3 2018.

The shared ERRV / Standby Vessel VOS Famous is monitoring the drill rig's 500m safety zone throughout drilling operations.

For further information: Steve Quayle, Tel: 01224 914298 email: [squayle@premier-oil.com](mailto:squayle@premier-oil.com)

## Lomond – Diving Activities

The DSV Subsea 7 Eagle will be carrying out diving activities on Chrysaor's 8-inch condensate pipeline which runs from the Lomond Platform to the CATS Riser Platform in UKCS Blocks 23/11a, 26/16b, 23/16d and 23/21a for a period of approximately 2 weeks starting 15th June 2018.



The work will entail excavation around the pipe, removal of concrete coating and inspection of the pipe at a number of locations in preparation for hot tapping and tie-in works later in the summer.

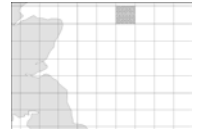
The locations where the work will take place are as follows:

- between 57°17.215'N 002°10.672'E and 57°18.013'N 002°10.539'E
- between 57°23.821'N 002°08.254'E and 57°31.128'N 002°01.815'E

For further information: Emily Eadington, Chrysaor, tel. +44 (0) 1224 086393, email [Emily.Eadington@chrysaor.com](mailto:Emily.Eadington@chrysaor.com)

**Bacchus Field** – Well Intervention Operations

Apache North Sea plan to carry out a light well intervention operation in the Bacchus Field (Forties) from about mid-May to mid-June using the WELL ENHANCER. She is a DP Class 3 vessel and therefore will not be moored up.

**Coordinates**

57°45.035'N 01°04.895'E

The work will involve well intervention work with the vessel being connected to the Bacchus B2 (22/06c-B2) subsea well. She will therefore be unable to manoeuvre.

Underwater operations associated with the well intervention are planned to be supported by Remotely Operated Vehicles (ROVs). However, saturation divers will also be carried in case the ROVs are unable to carry out a particular task. The duration for the works is estimated to be in the order of 30 days

*For further information:* Rob MacPherson, Apache North Sea, Tel: 01224 505838 email: [Robert.macpherson@apachecorp.com](mailto:Robert.macpherson@apachecorp.com)

**Harrier Field** – Development Project

Ithaca Energy UK Ltd is currently developing the Harrier Field in Block 30/6A of the UK Continental Shelf.

Ithaca Energy advises that the Harrier infield pipeline construction activities shall commence between the Harrier Manifold and the FPF-1 in the Central North Sea North Sea from 05 April 2018 and continue through to June 2018.



There will be a number of vessels involved in this campaign, including pipelay, survey, trenching/backfilling and diving support related works. The vessels supporting this campaign are the following: Deep Energy, Normand Pioneer, EDT Hercules and North Sea Atlantic and Deep Explorer. The pipeline is 7.5km in length.

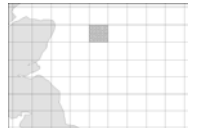
Structure	Coordinates
Harrier Manifold	56°43.562'N 02°05.249'E
FPF-1	56°43.845'N 02°06.542'E

*For further information:* Keith Stewart, Ithaca Energy, Tel: 01224 652184, email: [kstewart@ithacaenergy.com](mailto:kstewart@ithacaenergy.com)

**Guillemot A Field** – Drilling Operations

Anasuria Operating Company (AOC) are planning to sidetrack an existing well in the Guillemot A field. Upon arriving in the field, the rig will be hooked up with 8 anchors which have been pre-laid. (See Anchor List)

The rig is expected to complete operations and leave the Guillemot A field around 16th July 2018. The rig anchors and chain will then be recovered from the seabed by two anchor handling vessels around 18th July 2018.



Drilling Rig/Ship	Installation / Well No	Position	Start / Finish	Duration
West Phoenix 3ETB9 SKandi Foula LNJF3 VOS Hades 2HKV9	Guillemot A Field	57°09.508'N 0°49.603'E	16/05/2018	60 Days

*For further information:* Andrew Mellor, Anasuria Operating Company Ltd, Tel: +44 1224 976211, Email: [andrew.mellor@anasuria.co.uk](mailto:andrew.mellor@anasuria.co.uk)

## Notice to Fishermen

First Published: 15 May 2018 | Latest Update: 15 May 2018

## Fishing Hazard – Pipeline Span on Hewett to Bacton (PL21)



## Significant Pipeline Span on PL21 from Hewett to Bacton.

Size: Approx 37 metres long and 1 metre high.

Position: 53°01.482'N 001°43.673'E

For further information: John Entwistle Tel: 020 7344 6342 [John.Entwistle@eni.com](mailto:John.Entwistle@eni.com)

## Notice to Fishermen

First Published: 11 January 2018 | Latest Update: 19 April 2018

## Fishing Hazard – Pipeline Span Hewett Field PL1173



Please note that the stabilisation undertaken in January involved the placement of concrete mattresses which reduced the span lengths to below 10m length.

53°06.662'N 001°44.180'E to 53°06.654'N 001°44.198'E

53°06.668'N 001°44.165'E to 53°06.647'N 001°44.213'E

For further information: John Entwistle Tel: 020 7344 6342 [John.Entwistle@eni.com](mailto:John.Entwistle@eni.com)

## Seabed Activity

First Published: 19 April 2018 | Latest Update: 19 April 2018

## Chiswick Field – Drilling Operations

The Noble Hans Deul rig will be mobilising from Nigg to the following Chiswick field location on or around the 20th April 2018. The rig will be undertaking well workover and drilling activities and will be at that location for approximately 260 days.

Drilling Rig/Ship	Installation / Well No	Position	Start / Finish	Duration
Noble Hans Deul	Chiswick Field	53°56.390'N 002°44.828'E	20/04/2018	260 Days

For further information: Lyndsay Arthur, Spirit Energy, Tel: +44(0) 1224 415 150 email: [lyndsay.aethur@spirit-energy.com](mailto:lyndsay.aethur@spirit-energy.com)

## Seabed Activity

First Published: 08 March 2018 | Latest Update: 08 March 2018

## Clipper – Pipeline Construction Works

Pipeline construction activities shall commence between the Clipper South and Clipper platforms in the Southern North Sea from 01 April 2018 and continue through to October 2018.

There will be a range of vessels involved in pipelay, survey, rockdump and diving support related works, including, but not limited to the following: Deep Energy, Normand Pioneer, EDT Hercules, Nordnes

	Location
Clipper South Platform	53°24.224'N 001°46.968'E
Clipper Platform	53°27.480'N 001°43.922'E

For further information: Phillip Jones, INEOS Oil and Gas UK, Tel: +44 (0) 203 935 5278 email: [phillip.jones@ineos.com](mailto:phillip.jones@ineos.com)



**Area 1 Rig List**

Latest Update: 11 June 2018

MOVEMENT	RIG	POSITION	MOVEMENT	RIG	POSITION
	Rowan Gorilla 7	58°01.70'N 01°42.90'E		Maersk Intrepid	60°30.30'N 02°00.90'E
	EnSCO 80	58°08.90'N 03°01.20'W		Safe Scandinavia	60°41.90'N 02°55.90'E
	Maersk Integrator	58°34.30'N 01°41.80'E		Safe Caledonia	60°44.10'N 02°29.40'W
	COSL Innovator	58°48.50'N 02°16.10'E		West Hercules	60°49.10'N 04°09.20'W
	Rowan Viking	58°50.60'N 02°14.90'E	<b>New</b>	Songa Equinox	60°49.80'N 03°34.30'E
	Maersk Interceptor	58°55.30'N 02°11.90'E		Songa Endurance	60°49.90'N 03°36.10'E
	Deepsea Bergen	58°58.30'N 02°17.60'E		COSL Promoter	60°53.70'N 03°39.00'E
<b>New</b>	Ocean Patriot	59°26.90'N 01°37.20'E		Stena Don	60°55.90'N 02°14.10'W
<b>New</b>	Deepsea Stavanger	59°32.70'N 01°59.20'E		Ocean Guardian	60°56.70'N 01°33.80'E
	Safe Boreas	59°35.20'N 01°03.20'E		Paragon MSS1	61°02.00'N 01°07.80'E
	Noble Lloyd Noble	59°35.40'N 01°03.40'E		Transocean Leader	61°11.80'N 00°43.70'E
	Paul B Loyd Jnr	60°12.10'N 03°51.70'W		Transocean 712	61°19.40'N 01°32.10'E
<b>New</b>	Blackford Dolphin	60°18.70'N 04°20.30'W		Deepsea Atlantic	61°26.10'N 02°35.20'E
	Deepsea Aberdeen	60°20.10'N 04°02.30'W	<b>New</b>	Scarabeo 8	61°43.50'N 02°39.20'E

**Area 2 Rig List**

Latest Update: 11 June 2018

MOVEMENT	RIG	POSITION	MOVEMENT	RIG	POSITION
	Maersk Resilient	55°32.20'N 05°01.90'E		Rowan Gorilla V	56°58.02'N 01°52.19'E
	Maersk Guardian	55°43.30'N 04°48.10'E	<b>New</b>	West Phoenix	57°10.00'N 00°49.50'E
	Noble Sam Turner	55°48.20'N 04°33.60'E		Maersk Highlander	57°11.70'N 01°54.80'E
	Maersk Innovator	56°22.60'N 03°15.50'E		COSL Pioneer	57°51.00'N 00°37.00'W
	EnSCO 120	56°43.50'N 02°12.50'E		Stena Spey	57°55.30'N 00°54.10'W
<b>New</b>	EnSCO 100	56°44.60'N 00°40.70'E			

**Area 3 Rig List**

Latest Update: 11 June 2018

MOVEMENT	RIG	POSITION	MOVEMENT	RIG	POSITION
<b>New</b>	Paragon C20051	53°02.70'N 02°34.50'E		Seafox 1	53°42.20'N 01°09.00'E
	Seafox 4	53°04.60'N 02°11.10'E		Paragon B391	53°50.50'N 02°52.10'E
	EnSCO 72	53°08.40'N 03°02.60'E		Noble Hans Deul	53°56.40'N 02°44.80'E
	590021	53°14.00'N 03°14.50'E		Seafox 2	54°04.40'N 00°54.90'E
	EnSCO 122	53°14.40'N 04°05.00'E		Maersk Resolve	54°08.30'N 04°22.80'E
<b>New</b>	Seajacks Leviathan	53°21.40'N 02°02.30'E		EnSCO 92	54°12.20'N 02°27.10'E
<b>New</b>	Prospector 1	53°28.40'N 04°29.40'E		EnSCO 121	54°35.70'N 00°26.00'E

**Area 5 Rig List**

Latest Update: 11 June 2018

MOVEMENT	RIG	POSITION	MOVEMENT	RIG	POSITION
	Irish Sea Pioneer	53°32.20'N 03°34.80'W		GMS Endurance	53°53.50'N 03°37.50'W

Rig anchors may extend over one mile from rig positions; anchor buoys are not always deployed. There may be additional structures called anchor pennants, deployed up to 200 metres from each anchor. In the interests of safety and to avoid fishing gear damage, fishing close to, or within anchor patterns, should be avoided. Fishermen may contact the installation or the ERRV (standby vessel) for positions of the anchors.

**Ocean Guardian – At Captain B**

Anchor No.	Position	Anchor No.	Position	Anchor No.	Position
Rig	58°18.024'N 001°42.462'E	3	58°18.203'N 001°44.135'E	6	58°18.668'N 001°41.449'E
1	58°17.039'N 001°42.808'E	4	58°18.680'N 001°43.551'E	7	58°17.922'N 001°40.699'E
2	58°17.404'N 001°43.957'E	5	58°18.852'N 001°42.681'E	8	58°17.331'N 001°41.315'E

**Pre-Laid Anchors – Clair Ridge Field**

BP wish to advise that the Safe Caledonia Floatel has arrived alongside Clair Ridge Platform. The table below confirms the anchor positions within the field which were sent through on 10/05/18 – all the surface buoys have been recovered and the anchors connected to the rig.

Anchor No.	Anchor Position	Comments
Rig	60°44.171'N 02°29.932'W	
1	60°43.623'N 02°32.863'W	N/A
2	60°44.121'N 02°33.082'W	N/A
3	60°45.445'N 02°31.727'W	N/A
4	60°45.456'N 02°30.689'W	N/A
5	60°44.796'N 02°27.801'W	N/A
5A	60°44.851'N 02°27.586'W	Piggyback anchor
6	60°44.597'N 02°27.658'W	N/A
7	60°43.076'N 02°29.170'W	N/A
8	60°43.000'N 02°29.749'W	N/A
9	60°43.320'N 02°32.032'W	N/A
9A	60°43.237'N 02°32.206'W	Piggyback anchor
9B	60°43.169'N 02°32.356'W	Piggyback anchor
10	60°45.468'N 02°29.800'W	N/A

**Deepsea Aberdeen - Schiehallion West Drill Centre– Anchor Laid Down**

The rig is currently operating on DP and is not connected to any anchors

Anchor No.	Position	Lay-down Pennant	Chain End
Rig			
1	60°19.267'N 04°09.177'W	60°19.335'N 04°07.655'W	60°19.568'N 04°07.782'W
4	60°21.127'N 04°04.926'W	60°21.019'N 04°05.250'W	60°20.891'N 04°05.185'W
5	60°20.420'N 04°03.692'W	60°20.184'N 04°04.805'W	60°20.302'N 04°04.241'W
8	60°18.407'N 04°07.402'W	60°19.156'N 04°06.778'W	60°19.108'N 04°06.844'W

**Schiehallion North West Drill Centre- Anchor Laid Down**

Anchor No.	Position	Chain End
5	60°23.344'N 04°04.001'W	60°23.212'N 04°04.641'W
6	60°22.413'N 04°04.079'W	60°22.552'N 04°04.656'W

**Schiehallion Central – Anchor Pre-Laid**

Anchor No.	Position	Surface Buoy
Rig	60°20.029'N 04°02.522'W	
1	60°19.611'N 04°05.485'W	60°19.813'N 04°04.136'W
2	60°20.644'N 04°04.774'W	60°20.438'N 04°03.949'W
3	60°21.335'N 04°03.099'W	60°21.049'N 04°02.940'W
4	60°21.435'N 04°00.944'W	60°20.769'N 04°01.662'W
5	60°20.450'N 03°59.365'W	60°20.254'N 04°00.834'W
6	60°19.266'N 03°59.680'W	60°19.651'N 04°00.988'W
7	60°18.493'N 04°01.641'W	60°19.226'N 04°02.001'W
8	60°18.624'N 04°04.036'W	60°19.277'N 04°03.276'W

All other anchors within the Schiehallion field have been recovered.

– As Laid at Kraken DC4

Anchor No.	Anchor Position	Chain End (Estimated)	Chain Pennant End	Anchor Pennant End
1	59°56.66'N 01°14.79'E	59°56.41'N 01°14.67'E	59°56.36'N 01°14.44'E	59°56.68'N 01°14.97'E
2	59°56.47'N 01°15.99'E	59°56.23'N 01°15.79'E	59°56.12'N 01°15.89'E	59°56.53'N 01°15.88'E
3	59°55.96'N 01°16.58'E	59°55.84'N 01°16.11'E	59°55.71'N 01°16.04'E	59°56.06'N 01°16.57'E
4	59°55.45'N 01°16.18'E	59°55.84'N 01°15.47'E	59°55.94'N 01°15.56'E	59°55.51'N 01°16.30'E
5	59°55.22'N 01°15.22'E	59°55.58'N 01°15.39'E	59°56.03'N 01°15.45'E	59°55.20'N 01°15.04'E
6	59°55.27'N 01°14.04'E	59°55.53'N 01°14.23'E	59°55.55'N 01°14.07'E	59°55.18'N 01°13.90'E
7	59°55.80'N 01°13.43'E	59°55.74'N 01°13.95'E	59°55.63'N 01°14.05'E	59°55.79'N 01°13.26'E
8	59°56.37'N 01°13.72'E	59°56.15'N 01°13.98'E	59°56.02'N 01°13.88'E	59°56.44'N 01°13.55'E

Transocean 712 – At Osprey

Anchor No.	Position	Anchor No.	Position	Anchor No.	Position
Rig	61°19.400'N 001°32.100'E	3	61°20.113'N 001°33.270'E	6	61°18.074'N 001°33.551'E
1	61°19.792'N 001°31.340'E	4	61°19.700'N 001°33.985'E	7	61°18.656'N 001°31.970'E
2	61°20.112'N 001°32.162'E	5	61°19.080'N 001°34.219'E	8	61°19.210'N 001°31.331'E

Glen Lyon – FPSO



Anchor No.	Position	Anchor No.	Position	Anchor No.	Position
Rig	60°21.383'N 04°04.071'W	7	60°20.531'N 04°03.269'W	14	60°21.054'N 04°05.849'W
1	60°21.811'N 04°02.375'W	8	60°20.516'N 04°03.331'W	15	60°21.084'N 04°05.872'W
2	60°21.779'N 04°02.349'W	9	60°20.506'N 04°03.393'W	16	60°22.223'N 04°04.934'W
3	60°21.755'N 04°02.298'W	10	60°20.493'N 04°03.449'W	17	60°22.236'N 04°04.873'W
4	60°21.720'N 04°02.297'W	11	60°20.955'N 04°05.765'W	18	60°22.253'N 04°04.808'W
5	60°21.691'N 04°02.274'W	12	60°20.987'N 04°05.792'W	19	60°22.264'N 04°04.737'W
6	60°20.534'N 04°03.198'W	13	60°21.019'N 04°05.824'W	20	60°22.278'N 04°04.675'W

West Pheonix - Anasuria Cluster – Guillemot A Field – Pre-laying Anchors

Anasuria Operating Company (AOC) are planning to sidetrack an existing well in the Guillemot A field. Prior to mobilising the drilling rig, AOC are planning to pre-lay 8 anchors in the field. The anchors will be deployed in the proposed position and tensioned up to 150MT. Two anchor handling vessels will be mobilising to the field on 2<sup>nd</sup> May 2018 (at the earliest) with the vessel due on location around the 4<sup>th</sup> May 2018. The total anchor pre-laying operation is expected to take around 2 days from the date of the vessel arriving in location.

Anchor No.	Anchor Position	Laydown Pennant	Anchor Position	Laydown Pennant
1	57°09.508'N 0°49.603'E	57°09.782'N 0°49.444'E	5 57°10.633'N 0°49.801'E	57°10.513'N 0°50.065'E
2	57°09.695'N 0°48.986'E	57°09.949'N 0°49.228'E	6 57°10.409'N 0°50.321'E	57°10.125'N 0°50.157'E
3	57°10.031'N 0°48.729'E	57°10.118'N 0°49.346'E	7 57°10.014'N 0°50.599'E	57°09.927'N 0°50.096'E
4	57°10.458'N 0°48.882'E	57°10.399'N 0°49.155'E	8 57°09.643'N 0°50.321'E	57°09.784'N 0°49.861'E

COSL Pioneer – At Blackbird

Anchor No.	Position	Anchor No.	Position	Anchor No.	Position
Rig	57°50.083'N 00°37.677'W	3	57°50.324'N 00°35.977'W	6	57°49.176'N 00°38.128'W
1	57°51.096'N 00°38.171'W	4	57°49.847'N 00°35.972'W	7	57°49.813'N 00°39.571'W
2	57°51.116'N 00°37.369'W	5	57°49.174'N 00°37.234'W	8	57°50.431'N 00°39.527'W

Blackbird - 20/2a-9

Anchor No.	Position	Anchor No.	Position	Anchor No.	Position
6	57°50.052'N 00°37.523'W				

PBLJ – At Shaw CG Well – As Laid

Anchor No.	Position	Anchor No.	Position	Anchor No.	Position
Rig	57°17.360'N 001°22.280'E	3	57°17.460'N 001°23.710'E	6	57°16.720'N 001°21.460'E
1	57°18.360'N 001°22.330'E	4	57°16.970'N 001°23.310'E	7	57°17.220'N 001°20.570'E
2	57°18.020'N 001°23.120'E	5	57°16.580'N 001°22.500'E	8	57°17.960'N 001°20.390'E

## Culzean – Culzean FSO Anchors

Anchor No.	Anchor Position	Chain End		Anchor Position	Chain End
1	57°11.723'N 001°56.154'E	57°11.723'N 001°56.325'E	7	57°11.068'N 001°58.558'E	57°11.143'N 001°58.456'E
2	57°11.681'N 001°56.149'E	57°11.685'N 001°56.321'E	8	57°11.096'N 001°58.621'E	57°11.167'N 001°58.509'E
3	57°11.636'N 001°56.153'E	57°11.647'N 001°56.323'E	9	57°12.444'N 001°58.413'E	57°12.364'N 001°58.326'E
4	57°11.594'N 001°56.167'E	57°11.611'N 001°56.336'E	10	57°12.464'N 001°58.343'E	57°12.381'N 001°58.266'E
5	57°11.021'N 001°58.423'E	57°11.103'N 001°58.341'E	11	57°12.483'N 001°58.271'E	57°12.397'N 001°58.203'E
6	57°11.039'N 001°58.495'E	57°11.117'N 001°58.404'E	12	57°12.500'N 001°58.195'E	57°12.412'N 001°58.138'E

## Catcher FPSO –

Construction vessels Skandi Skansen and Skandi Neptune working around and extending out approximately 1000m from the future Catcher FPSO



Anchor No.	Position	Anchor No.	Position	Anchor No.	Position
STP Buoy @ Future FPSO	56°46.207'N 000°42.782'E				
1	56°46.573'N 000°42.093'E	5	56°46.457'N 000°43.780'E	9	56°45.713'N 000°42.755'E
2	56°46.602'N 000°42.136'E	6	56°46.423'N 000°43.804'E	10	56°45.719'N 000°42.687'E
3	56°46.630'N 000°42.182'E	7	56°46.387'N 000°43.824'E	11	56°45.728'N 000°42.620'E
4	56°46.655'N 000°42.233'E	8	56°46.350'N 000°43.840'E	12	56°45.739'N 000°42.555'E

## Area 1

## Survey List

Latest Update: 14 June 2018

Company & Vessels	Towed Cable Length & Depth	Area Covered 1 (inc Quod Blocks)	Area Covered 2 (inc Quod Blocks)	Duration
GEOxyz Ltd MV Geo Ocean II LXHX	1300m 3m	58°14.486'N 001°32.180'W 58°14.388'N 001°24.008'W 58°10.078'N 001°24.201'W 58°10.176'N 001°32.357'W	13	18/06/2018 - 30/09/2018 For 5 Days
Enquest heather Limited TBA		61°21.790'N 001°34.468'E 61°37.138'N 001°18.383'E	211	01/07/2018 - 31/08/2018 For 10 Days
Nexen Petroleum UK Limited TBC	1200m 3m	60°25.775'N 003°13.733'W 60°34.933'N 003°13.798'W 60°34.944'N 002°55.183'W 60°25.785'N 002°55.205'W	205, 206	01/07/2018 - 31/12/2018 For 4 Days
Polarcus Polarcus Alima C6XK4	8100m	62°32.419'N 000°32.816'W 61°18.117'N 002°27.134'W 61°18.405'N 003°32.036'W 62°32.925'N 001°47.243'W	208, 213, 214, 216, 217	01/07/18 - 30/09/18 For 40 days
Fugro Fugro Venturer C6CG3	1200m 3m	58°14.205'N 001°11.911'E 58°14.329'N 001°21.103'E 58°09.481'N 001°21.327'E 58°09.357'N 001°12.156'E	16	28/06/18 - 31/08/18 For 7 days
PGS Exploration (UK) Ltd Sanco Swift ZDKY8	8050m 25m	58°37.662'N 001°35.230'W 58°37.229'N 000°57.453'W 58°29.785'N 000°56.162'W 58°21.945'N 000°54.777'W 58°22.577'N 002°41.718'W 58°25.107'N 002°40.465'W 58°31.003'N 002°40.353'W 58°32.096'N 002°38.030'W 58°34.557'N 002°32.488'W 58°37.964'N 002°32.032'W 58°37.662'N 001°35.230'W	12; 13; 14	19/06/18 - 31/10/18 For 39 days
Fugro Fugro Venturer C6CG3	1200m 3m	60°34.984'N 002°47.011'W 60°36.573'N 002°47.365'W 60°45.864'N 002°32.027'W 60°45.825'N 002°27.932'W 60°42.219'N 002°24.514'W 60°36.132'N 002°25.962'W	206	17/06/2018 - 31/12/2018 For 6 Days
Fugro GB (North) Marine Ltd MV Fugro Venturer C6CG3	Autonomous Underwater Vehicle	58° 28.138'N 01°9.665'W 58° 28.270'N 01°5.562'W 58° 25.988'N 01°9.411'W 58° 26.120'N 01°5.312'W	13/20	12/06/18 - 30/06/18 For 2 days
Fairfield Nodal Ocean Pearl - C6ZW4 Sanco Star - ZDIT8		58°04.564'N 001°05.249'W 57°51.563'N 000°44.902'W 57°51.907'N 001°05.921'W 58°04.218'N 000°44.106'W	13; 14; 19; 20	12/06/2018 - 31/12/2018 For 60 Days
EMGS ASA Atlantic Guardian LAEU6		60°40.295'N 001°38.930'E 60°40.116'N 001°51.018'E 60°53.204'N 001°52.997'E 60°12.316'N 002°00.984'E 60°25.556'N 001°31.931'E	3	11/06/18 - 31/08/18 For 20 days
Atlantic Guardian LAEU6	1 x 1x m 6-700Kg each 115 Nodes	59°26.800'N 001°48.000'N 59°23.000'N 001°56.500'N 59°12.900'N 001°49.600'N 59°14.100'N 001°43.200'N 59°17.100'N 001°38.000'N 59°25.200'N 001°38.000'N 59°27.300'N 001°44.300'N		03/06/2018 - 20/06/2018
BP Exploration Fugro Venturer C6CG3	Autonomous Underwater Vehicle	60°20.796'N 04°23.011'W 60°20.741'N 04°18.411'W 60°16.852'N 04°16.009'W 60°15.750'N 04°18.380'W 60°16.037'N 04°23.677'W 60°16.890'N 04°25.291'W 60°19.834'N 04°25.077'W	Q204/19, Q204/23, Q204/24	01/06/18 - 30/06/18 For 4 days

BP Exploration Fugro Venturer C6CG3	Autonomous Underwater Vehicle	60°22.404'N 04°17.063'W 60°24.998'N 04°11.457'W 60°22.220'N 04°06.224'W 60°19.630'N 04°11.829'W	Q204/19, Q204/20, Q204/24, Q204/25	01/06/18 - 30/06/18 For 3 days
Fugro GB (North) Marine Ltd MV Fugro Venturer C6CG3		58°28.100'N 001°09.766'W 58°28.232'N 001°05.663'W 58°25.950'N 001°09.512'W 58°26.082'N 001°05.412'W	13	01/06/2018 - 31/07/2018 For 4 Days
DeepOcean Eda Flora - LAJW3 MV Fugro Synergy C6XR3		59°54.516'N 001°59.911'E 59°54.547'N 002°04.582'E 59°51.091'N 002°04.678'E 59°51.057'N 002°00.018'E	10	01/06/2018 - 31/10/2018 For 5 Days
Equinor MV Sea Explorer C6NG6		59°49.967'N 001°53.550'E 59°58.483'N 001°58.483'E 59°56.217'N 002°13.517'E 59°47.717'N 002°08.367'E	9, 10, 25	08/06/2018 - 19/06/2018 For 3 - 4 days
Fugro Fugro Venturer C6CG3		60°22.404'N 004°17.063'W 60°24.998'N 004°11.457'W 60°22.220'N 004°06.224'W 60°19.630'N 004°11.829'W	204	29/05/2018 - 30/08/2018 For 16 Days
Fugro Fugro Venturer C6CG3		60°20.802'N 004°22.803'E 60°20.748'N 004°18.203'E 60°16.859'N 004°15.801'E 60°15.756'N 004°18.172'E 60°16.044'N 004°23.469'E 60°16.897'N 004°25.083'E 60°19.840'N 004°24.868'E	204	28/05/2018 - 28/07/2018 For 3 Days
Fugro Survey Ltd M/V Fugro Galaxy C6YY4	1300m 3m	61°41.401'N 001°26.852'E 61°41.352'N 001°31.387'E 61°39.198'N 001°31.281'E 61°39.247'N 001°26.751'E 61°40.094'N 001°27.058'E 61°40.045'N 001°31.590'E 61°37.891'N 001°31.484'E 61°37.940'N 001°26.961'E 61°38.887'N 001°27.417'E 61°38.838'N 001°31.946'E 61°36.684'N 001°31.839'E 61°36.734'N 001°27.316'E 61°38.128'N 001°31.420'E	61°37.348'N 001°35.639'E 61°35.340'N 001°33.999'E 61°36.120'N 001°29.784'E 61°34.933'N 001°34.129'E 61°34.879'N 001°38.647'E 61°32.726'N 001°38.533'E 61°32.779'N 001°34.020'E 61°32.939'N 001°37.340'E 61°32.885'N 001°41.854'E 61°30.731'N 001°41.736'E 61°30.786'N 001°37.228'E	14/05/2018 - 31/08/2018 For 24 Days
PGS Exploration (UK) Ltd Sanco Swift ZDKY8		58°17.782'N 000°53.551'W 58°18.108'N 003°03.168'W 58°33.186'N 003°02.017'W 58°40.021'N 002°45.247'W 58°42.237'N 002°32.856'W 58°42.175'N 000°53.849'W 58°02.393'N 000°59.954'W 57°41.644'N 001°55.428'W 57°42.549'N 002°06.672'W 57°41.149'N 002°11.383'W 57°42.517'N 002°19.913'W 57°41.502'N 002°22.381'W 57°47.869'N 003°03.079'W 57°49.636'N 003°04.084'W 58°00.417'N 003°03.956'W 58°08.553'N 002°42.076'W 58°11.575'N 002°41.835'W 58°28.037'N 001°55.431'W	11, 12, 13, 14, 17, 18, 19	14/05/2018 - 31/10/2018 For 110 Days
Gardline Geosurvey Ltd MV Ocean Vantage HP6188		58°47.633'N 000°12.424'E 58°45.924'N 001°12.926'E	16	05/05/2018 - 30/06/2018 For 2 Days
Fugro Survey Ltd M/V Fugro Galaxy C6YY4	230m 1m	61°36.364'N 001°30.149'E 61°36.300'N 001°35.802'E 61°33.608'N 001°35.664'E 61°33.672'N 001°30.019'E	211	01/05/2018 - 31/08/2018 For 7 Days
Schlumberger TBA		61°29.653'N 001°45.383'W	208	01/05/2018 - 31/12/2018 For 0.5 Days
EMGS ASA Atlantic Guardian LAEU6		59°39.787'N 001°09.017'E 59°36.719'N 001°54.144'E 59°32.964'N 001°51.890'E 59°19.964'N 001°04.142'E 59°17.366'N 001°42.602'E 58°56.604'N 001°37.013'E 58°56.758'N 001°27.406'E		01/05/2018 - 30/06/2018 For 20 Days
PGS Exploration (UK) Ltd Sanco Swift ZDKY8		58°09.546'N 000°30.880'W 58°09.546'N 000°30.651'W 58°09.965'N 000°30.651'W 58°09.974'N 000°24.873'E 57°50.163'N 000°24.905'E 57°46.106'N 000°24.017'W 57°46.047'N 000°34.267'W 57°57.650'N 000°34.291'W 57°58.497'N 000°31.022'W 58°09.169'N 000°31.069'W 58°09.546'N 000°30.880'W		01/05/2018 - 30/06/2018
TBC		58°15.633'N 000°12.424'E 58°13.520'N 000°13.387'E		30/04/2018 - 31/07/2018 For 3 Days
PGS Exploration (UK) Ltd Sanco Swift ZDKY8		58°32.916'N 000°41.580'E 58°33.169'N 001°05.415'E 57°40.649'N 000°44.040'E 57°40.897'N 000°26.214'E 57°31.938'N 000°22.290'E 57°31.984'N 001°01.209'W 58°32.939'N 000°36.390'W 58°32.968'N 000°23.598'W 58°38.976'N 000°21.037'W 58°39.644'N 000°44.314'E	14, 15, 16, 20, 21	15/04/2018 - 31/10/2018 For 152 Days
CGG Services S.A Geo Coral LACA8	8000m 18m	58°19.373'N 000°05.168'E 58°19.595'N 000°20.234'E 57°46.735'N 000°21.042'E 57°46.570'N 000°03.973'E	14, 15, 20, 21	01/04/2018 - 30/09/2018 For 7 Days

CGG Services S.A TBA	8000m 18m	60°55.944'N 000°54.803'E 60°56.716'N 002°03.420'E 60°23.225'N 002°09.819'E 60°22.435'N 000°56.952'E	2, 3	01/04/2018 - 30/09/2018 For 30 Days
Gardline Geo survey Ltd Ocean Observer GHXX	1200m 3m	58°22.861'N 000°51.280'E 58°22.705'N 000°57.451'E 58°21.448'N 001°04.546'E 58°18.610'N 000°58.378'E	15, 16	22/01/2018 - 30/06/2018 For 10 Days
Gardline Geo survey Ltd Ocean Kommandor PBQW Ocean Observer GHXX	1200m 3m	59°26.867'N 001°37.738'E 59°26.610'N 001°43.004'E 59°21.252'N 001°41.990'E 59°21.509'N 001°36.738'E	9	21/03/2018 - 31/12/2018 For 2 Days

## Area 2 Survey List

Latest Update: 14 June 2018

Company & Vessels	Towed Cable Length & Depth	Area Covered 1 (inc Quod Blocks)	Area Covered 2 (inc Quod Blocks)	Duration
Gardline Geosurvey Ltd MV Ocean Vantage HP6188		58°47.633'N 000°12.424'E 58°45.924'N 001°12.926'E	16	05/05/2018 - 30/06/2018 For 2 Days
Fugro Survey Ltd M/V Fugro Galaxy C6YY4	230m 1m	61°36.364'N 001°30.149'E 61°36.300'N 001°35.802'E 61°33.608'N 001°35.664'E 61°33.672'N 001°30.019'E	211	01/05/2018 - 31/08/2018 For 7 Days
Schlumberger TBA		61°29.653'N 001°45.383'W	208	01/05/2018 - 31/12/2018 For 0.5 Days
EMGS ASA Atlantic Guardian LAEU6		59°39.787'N 001°09.017'E 59°36.719'N 001°54.144'E 59°32.964'N 001°51.890'E 59°19.964'N 001°04.142'E 59°17.366'N 001°42.602'E 58°56.604'N 001°37.013'E 58°56.758'N 001°27.406'E		01/05/2018 - 30/06/2018 For 20 Days
PGS Exploration (UK) Ltd Sanco Swift ZDKY8		58°09.546'N 000°30.880'W 58°09.546'N 000°30.651'W 58°09.965'N 000°30.651'W 58°09.974'N 000°24.873'E 57°50.163'N 000°24.905'E 57°46.106'N 000°24.017'W 57°46.047'N 000°34.267'W 57°57.650'N 000°34.291'W 57°58.497'N 000°31.022'W 58°09.169'N 000°31.069'W 58°09.546'N 000°30.880'W		01/05/2018 - 30/06/2018
TBC		58°15.633'N 000°12.424'E 58°13.520'N 000°13.387'E		30/04/2018 - 31/07/2018 For 3 Days
PGS Exploration (UK) Ltd Sanco Swift ZDKY8		58°32.916'N 000°41.580'E 58°33.169'N 001°05.415'E 57°40.649'N 000°44.040'E 57°40.897'N 000°26.214'E 57°31.938'N 000°22.290'E 57°31.984'N 001°01.209'W 58°32.939'N 000°36.390'W 58°32.968'N 000°23.598'W 58°38.976'N 000°21.037'W 58°39.644'N 000°44.314'E	14, 15, 16, 20, 21	15/04/2018 - 31/10/2018 For 152 Days
CGG Services S.A Geo Coral LACA8	8000m 18m	58°19.373'N 000°05.168'E 58°19.595'N 000°20.234'E 57°46.735'N 000°21.042'E 57°46.570'N 000°03.973'E	14, 15, 20, 21	01/04/2018 - 30/09/2018 For 7 Days
CGG Services S.A TBA	8000m 18m	60°55.944'N 000°54.803'E 60°56.716'N 002°03.420'E 60°23.225'N 002°09.819'E 60°22.435'N 000°56.952'E	2, 3	01/04/2018 - 30/09/2018 For 30 Days
Gardline Geo survey Ltd Ocean Observer GHXX	1200m 3m	58°22.861'N 000°51.280'E 58°22.705'N 000°57.451'E 58°21.448'N 001°04.546'E 58°18.610'N 000°58.378'E	15, 16	22/01/2018 - 30/06/2018 For 10 Days
Gardline Geo survey Ltd Ocean Kommandor PBQW Ocean Observer GHXX	1200m 3m	59°26.867'N 001°37.738'E 59°26.610'N 001°43.004'E 59°21.252'N 001°41.990'E 59°21.509'N 001°36.738'E	9	21/03/2018 - 31/12/2018 For 2 Days

## Area 3 Survey List

Latest Update: 14 June 2018

Company & Vessels	Towed Cable Length & Depth	Area Covered 1 (inc Quod Blocks)	Area Covered 2 (inc Quod Blocks)	Duration
Fugro Survey Limited MV Fugro Venrurer C6CG3	1200m	52°39.081'N 002°43.500'E 52°39.093'N 002°49.708'E 52°35.317'N 002°49.723'E 52°35.306'N 002°43.523'E	53	01/07/2018 - 30/09/2018 For 10 Days
Gardline Ltd MV Vigilant PBNX		53°39.007'N 002°03.370'E 53°45.729'N 001°42.282'E 53°43.460'N 001°53.773'E 53°21.377'N 002°02.315'E 53°22.652'N 002°06.616'E 53°19.055'N 002°05.664'E 54°14.580'N 002°09.171'E	49, 48, 44	01/07/2018 - 15/08/2018 For 7 Days
Shearwater GeoServices M/V Polar Duchess 5BJC3	6000m	54°11.150'N 0°48.356'E 53°54.790'N 0°48.280'E 53°54.678'N 0°10.696'E 54°11.054'N 0°10.418'E	42	Late June to Late July

Horizon Geosciences Ltd Komandor Stuart MPQH3		54°02.394'N 000°26.487'E 53°40.112'N 000°08.232'E	42, 47	01/06/2018 - 31/07/2018 For 28 Days
Geo XYZ Uk Ltd Geo Cean II LXHX		53°06.673'N 002°29.623'E 53°05.487'N 002°29.623'E 53°05.478'N 002°27.666'E 53°06.665'N 002°27.652'E	49	22/05/2018 - 30/06/2018 For 2 Days
Geo XYZ Uk Ltd Geo Cean II LXHX		52°53.764'N 002°36.582'E 52°52.578'N 002°36.593'E 52°52.571'N 002°34.631'E 52°53.757'N 002°34.620'E	53	22/05/2018 - 30/06/2018 For 2 Days

## Area 4 Survey List

Latest Update: 14 June 2018

Company & Vessels	Towed Cable Length & Depth	Area Covered 1 (inc Quod Blocks)	Area Covered 2 (inc Quod Blocks)	Duration
Providence Resources Plc MV Kommandor MCJ02	6m	49°30.611'N 011°49.730'W 49°30.205'N 011°48.388'W 49°27.005'N 011°50.670'W 49°22.256'N 011°48.009'W 49°20.773'N 011°54.212'W 49°25.519'N 011°56.882'W 49°26.999'N 012°01.795'W 49°32.973'N 011°57.559'W 49°32.428'N 011°55.751'W 49°42.890'N 011°47.262'W 49°40.872'N 011°41.383'W		20/06/2018 - 28/06/2018 For 8 Days + 2 Days

## Area 5 Survey List

Latest Update: 14 June 2018

Company & Vessels	Towed Cable Length & Depth	Area Covered 1 (inc Quod Blocks)	Area Covered 2 (inc Quod Blocks)	Duration
James Fisher & Sons plc Halcyon days MDFP2 Fast Fisher 2GGN4		53°23.240'N 003°25.270'W 53°23.215'N 003°21.398'W 53°21.397'N 003°18.967'W 53°21.077'N 003°23.251'W	110	01/05/2018 - 31/12/2018 For 25 Days