

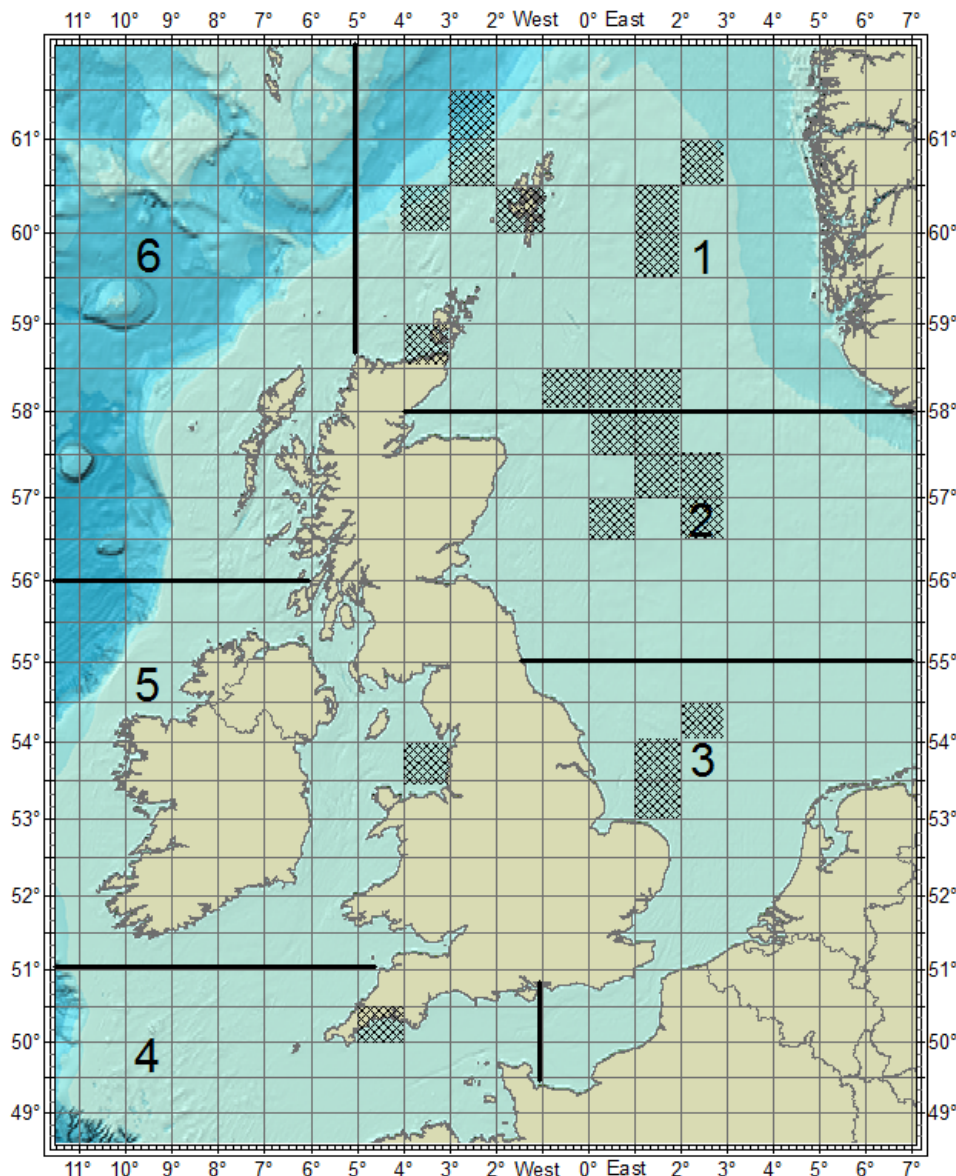
# The Kingfisher Bulletin

## Offshore News

OIL AND GAS

08 FEBRUARY 2018 | ISSUE 03

Shaded blocks indicate activity.



What's inside?

### New Hazards (-)

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STAY UP TO DATE - ALWAYS ENSURE YOU HAVE THE LATEST KINGFISHER BULLETIN AND OFFSHORE FISHING PLOTTER DATA ON-BOARD.

## 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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## Notice To Fishermen

First Published: 25 January 2018 | Latest Update: 25 January 2018

## FishSAFE Information – FSIv35 Now Available



The latest release of FSI data is now being distributed to fishermen and is available to download [here](#).

FishSAFE v35 contains the positions of many new oil & gas structures and is available for the following fishing plotter systems: Sodena, Maxsea, Olex, Penta, SIS MicroPlot, Transas Navifisher, Litton FishMaster, TMPlanner Quodfish, Trax and also your FishSAFE Unit.

For further information: Kingfisher Information, using the details at the foot of this page.

## Notice to Fishermen

First Published: 05 February 2018 | Latest Update: 05 February 2018

## Abandoned Wellhead – Plugged and Abandoned

Please be advised that the following wells have been abandoned please remove for the January 2018 Yellow Card

Structure	Operator	Position
16/28a-18	BP Exploration	58°05.053'N 001°34.587'E
14/19-15	Repsol Sinopec Resources UK Ltd	58°25.962'N 000°18.833'W
14/19a-19	Repsol Sinopec Resources UK Ltd	58°25.549'N 000°16.306'W
15/17-23	Repsol Sinopec Resources UK Ltd	58°24.938'N 000°18.750'E

For further information: Marcelle Wynter, Oil & Gas Authority, Tel: 0300 067 1616 email: [Marcelle.wynter@ogauthority.co.uk](mailto:Marcelle.wynter@ogauthority.co.uk)

## 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: 14 December 2017 | Latest Update: 14 December 2017

## Fishing Hazard – Lost Skip



Lost Skip skip 8 ft. X 10 ft. Approx weight 2.5 ton – 3.0 ton tare weight .

Approximate Position: **60°24.317'N 003°57.917'W**

3.18 n miles East of Shiehallion Loyal

For further information: Bob Bastow, Normand Subsea, Tel: +44 1224 349863 email: [NormandSubsea.OM@Subsea7.com](mailto:NormandSubsea.OM@Subsea7.com)

## Notice to Fishermen

First Published: 30 November 2017 | Latest Update: 30 November 2017

## Fishing Hazard – Anchor / Scrap steel chain from Met Buoy



Anchor / scrap steel chain from previous Metocean Buoy. The mooring rope and flotation have been recovered but the anchor remains on the seabed.

Approximate Position: **59°40.966'N 001°07.947'E**

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

## Notice to Fishermen

First Published: 15 November 2017 | Latest Update: 15 November 2017

## Fishing Hazard – New wellhead



A new wellhead has been installed on the seabed at the below location. This is 2.45m above the seabed.

Approximate Position: **60°40.123'N 02°23.828'W**



For further information: Nick Strachan, BP Tel: +44(0)1224 955089 email: [nick.strachan@uk.bp.com](mailto:nick.strachan@uk.bp.com)

## Notice to Fishermen

First Published: 02 November 2017 | Latest Update: 02 November 2017

## Fishing Hazard – Debris Large Tyre Fender



Please be advised that a large tyre/fender was found by vessel Boy Andrew that could not be recovered to shore. It is not known whether this item is old-field related, but it is reported for fishing awareness.

Approximate Position: **59°36.400'N 001°08.500'E**



For further information: Ray Wells, Statoil (UK) Limited, tel: 07771 918018, email: [rawe@statoil.com](mailto:rawe@statoil.com) or Euan Simpson, Statoil (Production) Limited, tel: 07557 161705, email: [eusi@statoil.com](mailto:eusi@statoil.com)

## Notice to Fishermen

First Published: 15 June 2017 | Latest Update: 15 June 2017

## Abandoned Wellhead – Plugged and Abandoned

Please be advised that the abandoned wellhead below, No overtrawlability trial done yet, rough ground may be experienced.

Structure	Operator	Position
3/30-7	Total	60°03.710'N 001°59.140'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: 21 May 2014 | Latest Update: 06 February 2018

## Edradour / Glenlivet Field Development – Construction Activities

Please note that TEPUK have three new permanent subsea 500m safety zones which came into effect 14 July 2015 at Edradour & Glenlivet, and 3 July 2017 at Edradour PLEM location.

Attention is drawn that FishSAFE units currently display a 200m radius zone (as opposed to the statutory 500m radius Safety Zone in force) as Hazard area centred on Edradour PLEM. Fishermen are therefore kindly requested to avoid this area.

All construction works have now been completed, and a guard vessel remains on site until the 14th February 2018.

MV "Kestrel" (BCK81) Call Sign: MHCH2, is acting as guard vessel at the Edradour PLEM location, 60°54.66'N 02°32.26'W

Area	Block	Coordinates
Glenlivet	UKCS 214/30a	61°04.600'N 02°05.010'W
Edradour	UKCS 206/4a	60°56.040'N 02°14.010'W
Edradour PLEM	UKCS 206/4a	60°54.660'N 02°32.260'W
Laggan	UKCS 206/4a	60°56.670'N 02°53.620'W



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

**Martin Linge Project** – NOCS Blocks 30/4 & 30/7a

Total Norway have activities solely within the Norwegian Sector for the Martin Linge Project which are included here for information.

A steel jacket (topsides to be installed summer 2017) at the following locations: 60°30.34' N 02°00.79' E and 60°29.87' N 02°04.42' E.

From 15th July 2016 Total Norway have a new 500m radius safety zone at the submerged STL buoy prior to the arrival of a floating storage vessel (FSO) planned to arrive Q4 2017 centred on the following location: 60° 29.87' N 02° 04.42' E

A guard vessel will be present in the area until the FSO arrives in late 2017.

*For further information:* David Colliard, Total E&P UK Limited, Tel: 01224 298172 email: david.colliard@total.com

**Deployment of Buoys**

First Published: 25 January 2018 | Latest Update: 25 January 2018

**North and East Coast** – Acoustic receiver deployments

Deployment of one Datawell Waverider; a 700mm diameter bright yellow surface buoy with an LED flasher (5 flashes every 20s). Linked to smaller secondary buoy visible at low water.

Located on the eastern coastline of the island of South Harva in a depth of 25m. Moored on the seabed until April 2018

60°01.410'N 001°20.530'W

*For further information:* Alan Harpin, Scottish Sea Farms Ltd, Tel: +44 (0)7769678195 email: [alan.harpin@scottishseafarms.com](mailto:alan.harpin@scottishseafarms.com)

**Deployment of Buoys**

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

**Dunnet Head** – ADCP Deployment with surface marker buoys

The Environmental Research Institute is deploying 2 sea bed mounted frames, each with 2 surface marker buoys. Frames will be located approx 700m NE of Dunnet Head lighthouse and approx. 1000m NNE of Dunnet Head Lighthouse.

The locations of each frame are as follows:

58°40.598'N 3°21.993'W

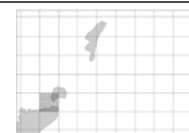
58°40.819'N 3°21.958'W

Each frame will have two surface marker buoys (bright orange). Each marker buoy will be located approx. 100m from the frames central position (One buoy each side).

Each marker buoys will be tethered to a subsurface weight (400 Kg) with 16 mm polypropelene rope.

Vessels are advised to keep within 200m of these positions in order to avoid marker buoys and associated moorings. Frames will remain in place between January 22nd 2018 – May 22nd 2018

*For further information:* Jason Mcilvenny / Dr Philippe Gleizon, Tel: 01847889000 email: [Jason.mcilvenny@uhi.ac.uk](mailto:Jason.mcilvenny@uhi.ac.uk) [philippe.gleizon@uhi.ac.uk](mailto:philippe.gleizon@uhi.ac.uk)



## Notice to Fishermen

First Published: 30 November 2017 | Latest Update: 20 December 2017

## Fishing Hazards – CATS Pipeline (Groups of structures)



A number of large structures ( up to 6m high and 25m long) are positioned in open water on the Central Area Transmission System(CATS)at a number of the TEEs.



Each individual structure is deemed to be fishing friendly in design, but given the close proximity of the structures at these TEE's, it is recommended that fishermen treat these area's with caution. The individual positions are as follows:

T1 Structure, Andrew Structure, Huntington Structure	57°42.667'N 001°43.466'E
T2 Structure, ETAP Structure, WAGE structure	57°21.983'N 001°28.119'E
T5 Structure, Stella Structure, Banff Structure, Culzean Structure	57°01.752'N 001°12.124'E
T6 Structure, Judy Structure	56°39.793'N 001°12.112'E

For further information: Blair McKay, CATS Pipeline Technical Authority, Tel: +44(0)141 2271453 email: [blair.mckay@woodplc.com](mailto:blair.mckay@woodplc.com)

## Notice to Fishermen

First Published: 05 February 2018 | Latest Update: 05 February 2018

## Abandoned Wellhead – Plugged and Abandoned

Please be advised that the following wells have been abandoned please remove for the January 2018 Yellow Card

Structure	Operator	Position
30/13a-9	Repsol Sinopec Resources UK Ltd	56°34.784'N 002°30.267'E
30/01c-9	BP Exploration	56°50.657'N 002°10.019'E
23/16a-4	BP Exploration	57°23.263'N 002°00.865'E

For further information: Marcelle Wynter, Oil & Gas Authority, Tel: 0300 067 1616 email: [Marcelle.wynter@ogauthority.co.uk](mailto:Marcelle.wynter@ogauthority.co.uk)

## Notice to Fishermen

First Published: 16 November 2017 | Latest Update: 16 November 2017

## Buchan Anchors – Removal

The Buchan Alpha FPV has been removed from its location however, the Safety zones remain in place as the subsea infrastructure is still present.



Please note that the ten Anchors situated the Buchan Alpha installation have been removed and recovered to shore. The anchors were located at the following co-ordinates:

A1: 57°52.707'N	000°03.461'E	C1: 57°55.023'N	000°00.974'E	E1: 57°54.473'N	000°05.019'E
A2: 57°52.457'N	000°01.267'E	C2: 57°55.770'N	000°00.630'E	E2: 57°53.339'N	000°04.479'E
B1: 57°53.084'N	000°00.672'E	D1: 57°55.858'N	000°02.450'E		
B2: 57°53.907'N	000°01.348'E	D2: 57°55.412'N	000°04.155'E		

The anchor cables which connected Buchan Alpha to the anchor locations have also been recovered. However as no trawl trials have been conducted in this area there could be seabed scars at the locations where these wires were present.

For further information: Joe Leask, Repsol Sinopec Resources UK Limited, T: +44 (1224) 501003 | M: +44 (7769) 113638

## Notice to Fishermen

First Published: 11 August 2017 | Latest Update: 11 October 2017

## Culzean Field – CATS T5



Please be aware that following recent Culzean Field Development installation operations, there are now four large structures positioned within 75m of each other in open water at the CATS T5 pipeline location in close proximity to the Culzean PLEM with the following coordinates: 57°01.742'N 001°12.190'E



Each individual structure is deemed to be fishing friendly in design, but given the close proximity of the four structures, it is recommended that fishermen treat this area with caution. The individual positions are as follows:

Banff PLEM structure (15m x 10m x 3.7m)	57°01.734'N 001°12.154'E
CATS T5 structure (20.5m x 11m x 4.6m)	57°01.752'N 001°12.124'E
Culzean PLEM structure (24.9m x 21.9m x 5.6m)	57°01.763'N 001°12.193'E
Stella PLEM structure (17.6m x 13.4m x 3.9m)	57°01.741'N 001°12.190'E

For further information: Sietze Akkerman, Tel: +44 (0) 1224 242461, Email: [sietze.akkerman@maerskoil.com](mailto:sietze.akkerman@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 exclusion zone in force.

**Subsea Activity**

No Subsea activity planned for the next period

**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 Q1 2018. The 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*

## Notice to Fishermen

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

## Fishing Hazard – Pipeline Span Hewett Field PL1173



Please note that a pipeline freespan has been identified during routine subsea inspection survey on the southern North Sea Hewett Field PL1173 pipeline, with the following details:

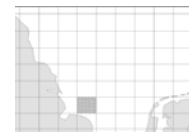
Length 25.5m Height 0.82m 53°06.662'N 001°44.180'E to 53°06.654'N 001°44.198'E

Stabilisation works due to commence on the 9<sup>th</sup> January 2018. Location of Deposit

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

Duration: 10 days Weather dependent. Arrival into the field 9<sup>th</sup> January 2018

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



## Notice to Fishermen

First Published: 30 November 2017 | Latest Update: 30 November 2017

## Abandoned Wellhead – Abandoned Wellhead Campaign

Please note that a well abandonment campaign will be undertaken from the 23<sup>rd</sup> October 2017 to the 30<sup>th</sup> November 2017.

The well abandonment activity will be undertaken at the following suspended wells:-

Structure	Operator	Position	Status
48/15b-10	Centrica	53°37.500'N 001°52.038'E	
48/10a-15y	Centrica	53°40.722'N 001°58.641'E	
44/28a-6	Centrica	54°06.297'N 002°34.104'E	Update
110/03b-6A	Centrica	53°56.153'N 003°27.042'W	Complete

Work is now complete on 44/28a-6

A seabed survey was carried out at the well location. While doing the seabed survey the sonar was set up for 80 meters. The ROV also carried out a 360° sonar sweep at 80 meter range. The sweep was done at the 4 cardinal points of the compass from the wellheads.

No oilfield related debris was observed within the survey area.

For further information: Alastair Cattanach Tel +44 (0)1224 452360, Email: [alastair.cattanach@intermoor.com](mailto:alastair.cattanach@intermoor.com)

## Seabed Activity

First Published: 25 January 2018 | Latest Update: 05 February 2018

## Guinevere Platform – Decommissioning Works

It is anticipated that once decommissioning related research work has been completed at the Guinevere Platform on the 8 February 2018.

The vessel Seafox 1 will be departing the 500m zone of the Guinevere Platform: 53°24.892'N 001°16.420' E) and relocating to within the 500m zone of the West Sole Platform: 53°42.213' N 01°09.039'E to carry out works.

Please could you issue a navigation warning and inform vessels as appropriate.

For further information: Julie Summerell, Perenco, Tel: +44 (0)160377 1095 email: [jsummerell@uk.perenco.com](mailto:jsummerell@uk.perenco.com)





## Fishing Hazard – Replica Mines



Please be advised that Replica Mines SADAF 02 Mine Shape

**Position**  
50°17.301'N 004°15.983'W  
50°17.897'N 004°15.100'W

43m water with a 20m Tether  
39m of water with a 20m Tether



**For further information:** Warrant Officer Robert Montgomery RN, [Tel:01752 555433](tel:01752555433) email: [Robert.Montgomery685@mod.uk](mailto:Robert.Montgomery685@mod.uk)

**Douglas Field – Drilling Operations**

Please be informed that the Irish Sea Pioneer is currently scheduled to be in the Douglas Field from 5 February 2018 for approximately 150 days.



Drilling Rig/Ship	Installation / Well No	Position	Start / Finish	Duration
Irish Sea Pioneer	Douglas Field (110/13D)	53°32.234'N 003°34.781'W	15/01/2018	30 Days

**For further information:** Alec Townley, Petrofac, Email: [alec.townley@petrofac.com](mailto:alec.townley@petrofac.com), T: +44 1352 842353

## Area 1 Rig List

Latest Update: 05 February 2018

MOVEMENT	RIG	POSITION	MOVEMENT	RIG	POSITION
	Rowan Stavanger	58°04.70'N 01°53.30'E		Deepsea Aberdeen	60°19.90'N 04°06.30'W
	Ensko 80	58°08.90'N 03°01.20'W		Deepsea Atlantic	60°28.20'N 02°36.10'W
	Maersk Intrepid	58°25.10'N 01°42.90'E		Safe Scandinavia	60°41.90'N 02°55.90'E
	Maersk Integrator	58°34.30'N 01°41.80'E		COSL Promoter	60°47.10'N 03°33.30'E
<b>New</b>	COSL Innovator	58°40.20'N 02°14.20'E	<b>New</b>	Songa Equinox	60°48.30'N 03°33.20'E
	Rowan Viking	58°50.60'N 02°14.90'E		Songa Endurance	60°52.60'N 03°29.60'E
	Transocean Arctic	59°21.00'N 01°49.70'E		West Elara	61°02.30'N 02°20.30'E
<b>New</b>	Wilphoenix	59°29.50'N 01°33.40'E		Transocean 712	61°19.40'N 01°32.10'E
	Maersk Gallant	59°34.90'N 01°39.40'E		Songa Enabler	61°25.30'N 03°49.70'E
	Safe Boreas	59°35.20'N 01°03.20'E		Deepsea Stavanger	64°56.80'N 06°57.30'E
	Noble Lloyd Noble	59°35.40'N 01°03.40'E			

## Area 2 Rig List

Latest Update: 05 February 2018

MOVEMENT	RIG	POSITION	MOVEMENT	RIG	POSITION
	Noble Sam Turner	55°32.30'N 05°01.90'E		Ensko 100	56°46.40'N 00°46.40'E
	Maersk Resilient	55°34.80'N 04°45.40'E		Rowan Gorilla V	56°58.02'N 01°52.19'E
	Maersk Guardian	55°43.30'N 04°48.10'E		Maersk Interceptor	56°58.90'N 02°57.50'E
	Maersk Innovator	56°22.60'N 03°15.50'E		Maersk Highlander	57°11.70'N 01°54.80'E
	Ocean Valiant	56°23.70'N 02°15.30'E		Paul Loyd Jnr	57°17.40'N 01°22.40'E
	Ensko 120	56°43.50'N 02°12.50'E		Stena Spey	57°17.80'N 01°21.90'E

## Area 3 Rig List

Latest Update: 05 February 2018

MOVEMENT	RIG	POSITION	MOVEMENT	RIG	POSITION
	Seafox 4	53°13.10'N 03°55.10'E		Ensko 72	53°24.60'N 04°12.90'E
	590021	53°14.00'N 03°14.50'E		Seafox 1	53°24.90'N 01°16.40'E
	Ensko 122	53°14.40'N 04°05.00'E		Maersk Resolve	54°20.60'N 02°51.90'E
	Ensko 92	53°23.20'N 02°08.90'E		Ensko 121	54°35.70'N 00°26.00'E
	Ensko 101	53°24.30'N 04°12.00'E			

## Area 5 Rig List

Latest Update: 05 February 2018

MOVEMENT	RIG	POSITION	MOVEMENT	RIG	POSITION
	Irish Sea Pioneer	53°32.20'N 03°34.80'W		GMS Endurance	53°51.80'N 03°37.10'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.

**Area 1 Anchor List**

Latest Update: 25 November 2017

**Transocean Leader – At Kraken Drill Centre #4**



Anchor No.	Anchor Position	Laydown Pennant s	Anchor Position	Laydown Pennant s
Rig	59°55.894'N 01°14.982'E			
1	59°54.290'N 01°11.580'E	59°54.380'N 01°11.500'E	5	59°52.760'N 01°12.810'E
2	59°54.310'N 01°12.690'E	59°54.400'N 01°12.740'E	6	59°52.740'N 01°11.590'E
3	59°54.760'N 01°13.790'E	59°53.790'N 01°13.980'E	7	59°53.200'N 01°10.670'E
4	59°53.210'N 01°13.700'E	59°53.170'N 01°13.880'E	8	59°53.820'N 01°10.660'E
				59°53.850'N 01°10.510'E

**Deepsea Aberdeen – As Laid at Schiehallion West Drill Centre**

Anchor No.	Position	Anchor No.	Position	Anchor No.	Position
Rig	60°19.884'N 004°06.252'W	3	60°21.342'N 004°07.506'W	6	60°20.424'N 004°01.944'W
1	60°20.346'N 004°09.216'W	4	60°21.126'N 004°04.926'W	7	60°17.814'N 004°04.458'W
2	60°20.454'N 004°09.234'W	5	60°20.424'N 004°03.684'W	8	60°18.414'N 004°06.318'W

**Deepsea Aberdeen – Schiehallion Central Drill Centre**

Anchor No.	Anchor Position	Surface Buoy
Well		
2	60°20.646'N 004°04.776'W	60°20.322'N 004°03.600'W
3	60°21.336'N 004°03.102'W	Anchor Laid Down on Seabed
4	60°21.432'N 004°00.948'W	60°20.670'N 004°01.710'W
5	60°20.454'N 003°59.346'W	60°20.280'N 004°00.588'W

**Transocean 712 – At Osprey**

Anchor No.	Position	Anchor No.	Position	Anchor No.	Position
Rig	61°19.496'N 001°32.716'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

**Blackford Dolphin – As Laid Pattern Captain B**

Anchor No.	Position	Anchor No.	Position	Anchor No.	Position
Rig	58°18.001'N 01°42.492'W	3	58°18.869'N 01°42.727'W	6	58°17.298'N 01°41.225'W
1	58°18.239'N 01°44.023'W	4	58°18.698'N 01°41.400'W	7	58°17.054'N 01°42.489'W
2	58°18.646'N 01°43.554'W	5	58°17.877'N 01°40.638'W	8	58°17.437'N 01°44.025'W

**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

## PBLJ – At Shaw CG Well - Proposed

Anchor No.	Anchor Position	Chain End	Anchor Pennant End
CG Well	57°17.358'N 001°22.275'E		
1	57°18.356'N 001°22.329'E	57°18.140'N 001°22.319'E	57°18.354'N 001°22.510'E
2	57°18.021'N 001°23.123'E	57°17.802'N 001°22.833'E	57°17.964'N 001°23.270'E
6	57°16.717'N 001°21.457'E	57°17.201'N 001°21.912'E	57°16.637'N 001°21.351'E
7	57°17.218'N 001°20.607'E	57°17.263'N 001°21.098'E	57°17.202'N 001°20.428'E
8	57°17.928'N 001°20.466'E	57°17.791'N 001°20.895'E	57°17.925'N 001°20.284'E

## Maersk Master – will pre-lay anchors at Bittern B4 (Recovery planned)

Anchor No.	Position	Anchor No.	Position	Anchor No.	Position
Rig	56°55.020'N 001°01.404'E	3	56°55.032'N 001°02.908'E	6	56°54.394'N 001°00.426'E
1	56°55.849'N 001°01.347'E	4	56°54.473'N 001°02.527'E	7	56°54.994'N 000°59.894'E
2	56°55.639'N 001°02.405'E	5	56°54.198'N 001°01.454'E	8	56°55.574'N 001°00.274'E

## Ocean Patriot – Proposed At Egret Anchor pattern will have a circa 1600m radius

Anchor No.	Position	Anchor No.	Position	Anchor No.	Position
Rig	57°10.361'N 001°44.677'E	3	57°10.322'N 001°43.477'E	6	57°11.022'N 001°45.349'E
1	57°09.678'N 001°44.625'E	4	57°10.596'N 001°43.567'E	7	57°10.361'N 001°46.110'E
2	57°09.753'N 001°44.133'E	5	57°11.111'N 001°44.773'E	8	57°09.999'N 001°46.187'E

## Culzean – Culzean FSO Anchors

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

Company & Vessels	Towed Cable Length & Depth	Area Covered 1 (inc Quod Blocks)	Area Covered 2 (inc Quod Blocks)	Duration
Fugro GB Marine Ltd Fugro Scout 3FYP4		58°01.698'N 001°42.698'E 58°01.701'N 001°43.003'E 58°01.536'N 001°42.704'E 58°01.539'N 001°43.009'E	16	01/03/2018 - 01/04/2018 For 3 Days
Gardline Ltd Ocean Reliance HP6391	1500m 3m	58°47.853'N 001°08.071'E 58°45.783'N 001°12.876'E	16	05/02/2018 - 31/03/2018 For 16 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
Benthic Solutions Ltd Coral Wind 2EMX8		58°17.916'N 003°12.197'W 58°17.271'N 003°11.239'W 58°16.608'N 003°12.883'W 58°17.252'N 003°13.819'W	11	19/01/2018 - 16/02/2018 For 5 Days
Gardline Geo survey Ltd Ocean Reliance HP6391		58°00.927'N 000°21.373'W 57°59.311'N 000°21.357'W 57°59.302'N 000°24.401'W 58°00.918'N 000°24.419'W	14, 20	20/10/2017 - 31/01/2018 For 3 Days
Schlumberger TBA		60°40.122'N 003°23.830'W	206	01/09/2017 - 30/03/2018 For 1 Day

## Area 2 Survey List

Latest Update: 25 January 2018

Company & Vessels	Towed Cable Length & Depth	Area Covered 1 (inc Quod Blocks)	Area Covered 2 (inc Quod Blocks)	Duration
Gardline Geosurvey Kommandor PBQW	1200m 3m	57°08.572'N 001°04.039'E 57°08.665'N 001°10.283'E 57°12.706'N 001°10.083'E 57°12.612'N 001°03.828'E	22	
MG3 (Survey) UK Ltd MV Poseidon TFJC		57°11.070'N 000°51.579'E 57°08.914'N 000°51.529'E 57°08.941'N 000°47.562'E 57°11.096'N 000°47.608'E	21	10/02/2018 - 30/04/2018 For 3 Days
Total E&P UK Ltd TBC	2m 5m	57°00.727'N 001°40.424'E	22	30/11/2017 - 28/02/2018 For 2 Days
Baker Hughes Wireline Olympic Taurus LDXA	2m 4m	57°10.704'N 001°53.811'E	22	01/02/2018 - 31/05/2018 For 2 Days
Fugro Survey Ltd Fugro Venturer C6CG3		57°55.517'N 000°26.941'E 57°55.008'N 000°30.876'E 57°54.746'N 000°30.756'E 57°55.256'N 000°26.822'E 58°00.229'N 000°43.018'E 57°59.466'N 000°45.702'E 57°59.229'N 000°45.462'E 57°59.992'N 000°42.779'E	21, 15	19/01/2018 - 30/04/2018 For 7 Days
TBC		57°53.967'N 000°59.687'W 57°53.788'N 000°48.813'W 57°46.787'N 000°49.237'W 57°46.965'N 001°00.075'W	20	15/01/2018 - 30/06/2018 For 3 Days
Nautical Petroelum Ltd TBC		57°25.545'N 001°33.573'E 57°25.545'N 001°38.573'E 57°23.295'N 001°38.573'E 57°23.295'N 001°33.573'E	22	17/11/2017 - 28/02/2018 For 14 Days
Gardline Geo Survey Ltd Sea Explorer C6NG6		57°11.145'N 002°13.581'E 57°11.073'N 002°17.549'E 57°08.919'N 002°17.415'E 57°08.990'N 002°13.452'E 57°09.372'N 002°14.789'E 57°09.300'N 002°18.754'E 57°07.685'N 002°18.653'E 57°07.757'N 002°14.691'E	23	10/11/2017 - 31/03/2018 For 10 Days
Gardline Geosurvey Kommandor PBQW	1200m 3m	57°53.967'N 000°59.687'W 57°53.788'N 000°48.813'W 57°46.787'N 000°49.237'W 57°46.965'N 001°00.075'W	20	06/11/2017 - 01/07/2018 For 3 Days

## Area 3 Survey List

Latest Update: 25 January 2018

Company & Vessels	Towed Cable Length & Depth	Area Covered 1 (inc Quod Blocks)	Area Covered 2 (inc Quod Blocks)	Duration
GEOXYZ UK Ltd Geo Cean II LXHX		52°54.566'N 002°46.090'E 52°53.380'N 002°46.096'E 52°53.376'N 002°44.135'E 52°54.562'N 002°44.127'E	53	22/02/2018 - 24/04/2018 For 2 Days
Gardline Geosurvey Ltd Kommandor PBQW		54°38.509'N 002°18.734'E 54°38.524'N 002°21.523'E 54°36.907'N 002°21.548'E 54°36.891'N 002°18.761'E	44	21/02/2018 - 02/05/2018 For 20 Days
Fugro Survey Ltd MV Fugro Meridian		53°22.652'N 002°06.622'E 53°19.055'N 002°05.666'E 53°21.377'N 002°02.317'E 53°14.823'N 002°01.389'E	49	21/02/2018 - 31/03/2018 For 3 Days
GEOXYZ UK Ltd Geo Cean II LXHX		53°09.012'N 003°03.482'E 53°07.780'N 003°03.480'E 53°07.781'N 003°01.412'E 53°09.013'N 003°01.413'E	50	21/02/2018 - 30/04/2018 For 3 Days
Fugro Survey Ltd Fugro Galaxy		53°18.284'N 001°23.087'E 53°15.022'N 002°04.406'E 53°08.026'N 002°08.328'E 52°51.567'N 001°27.430'E	48; 49	13/01/2018 For 12 Weeks
Fugro Survey Limited Skandi Olympia C6XY8		53°23.382'N 001°59.863'E 53°22.369'N 001°34.837'E	48	10/01/2018 - 10/02/2018 For 15 Days
Fugro Survey Ltd Fugro Searcher 3EUY6		53°36.904'N 001°30.867'E 53°37.277'N 001°31.880'E 53°36.701'N 001°32.481'E 53°36.327'N 001°31.467'E	48	07/01/2018 - 18/01/2018 For 3 Days
Gardline Geosurvey Ltd Kommandor PBQW		54°36.538'N 002°10.751'E 54°36.541'N 002°12.608'E 54°35.463'N 002°12.629'E 54°35.451'N 002°10.772'E	44	15/12/2017 - 31/01/2018 For 2 Days

Company & Vessels	Towed Cable Length & Depth	Area Covered 1 (inc Quod Blocks)	Duration	
Titan Environmental Surveys Ltd Titan Discovery 2HCR3	N/A	51° 26.837'N 003° 53.947'W 51° 29.382'N 003° 49.003'W 51° 28.981'N 003° 39.009'W 51° 24.215'N 003° 32.593'W 51° 24.284'N 003° 10.006'W 51° 26.925'N 003° 09.883'W	51° 26.946'N 003° 08.706'W 51° 23.943'N 003° 09.004'W 51° 21.277'N 003° 15.104'W 51° 21.241'N 003° 18.070'W 51° 22.543'N 003° 41.897'W 51° 26.837'N 003° 53.947'W	September 2017 until March 2018
Titan Environmental Surveys Ltd Titan Endeavour 2ELT9	N/A	51° 26.837'N 003° 53.947'W 51° 29.382'N 003° 49.003'W 51° 28.981'N 003° 39.009'W 51° 24.215'N 003° 32.593'W 51° 24.284'N 003° 10.006'W 51° 26.925'N 003° 09.883'W	51° 26.946'N 003° 08.706'W 51° 23.943'N 003° 09.004'W 51° 21.277'N 003° 15.104'W 51° 21.241'N 003° 18.070'W 51° 22.543'N 003° 41.897'W 51° 26.837'N 003° 53.947'W	September 2017 until March 2018
Titan Environmental Surveys Ltd Titan Discovery 2HCR3 Titan Endeavour 2ELT9	N/A	51°35.168'N 03°59.993'W 51°36.221'N 03°59.471'W 51°36.683'N 03°58.184'W 51°36.823'N 03°57.094'W 51°36.869'N 03°55.747'W 51°36.576'N 03°55.702'W 51°36.552'N 03°55.516'W 51°36.524'N 03°55.484'W 51°36.578'N 03°55.403'W 51°36.575'N 03°55.133'W 51°36.811'N 03°54.161'W 51°37.169'N 03°53.605'W 51°37.171'N 03°50.982'W 51°37.364'N 03°50.329'W 51°37.278'N 03°50.263'W 51°37.178'N 03°50.633'W 51°36.989'N 03°50.922'W 51°36.888'N 03°50.943'W	51°35.056'N 03°47.925'W 51°34.025'N 03°47.169'W 51°33.935'N 03°47.489'W 51°33.847'N 03°47.937'W 51°33.857'N 03°48.594'W 51°33.969'N 03°49.077'W 51°34.090'N 03°49.355'W 51°33.472'N 03°51.083'W 51°32.894'N 03°52.225'W 51°33.405'N 03°52.874'W 51°33.805'N 03°52.030'W 51°34.030'N 03°51.544'W 51°34.642'N 03°49.930'W 51°34.852'N 03°49.988'W 51°35.050'N 03°49.984'W 51°35.388'N 03°53.879'W 51°34.812'N 03°54.275'W 51°34.154'N 03°56.914'W 51°35.168'N 03°59.993'W	January 2018 Until End of March 2018
Titan Environmental Surveys Ltd Titan Discovery 2HCR3	N/A	51°35.100'N 004°00.060'E 51°34.080'N 003°56.880'E 51°32.880'N 003°52.200'E 51°34.020'N 003°47.160'E 51°37.320'N 003°50.340'E 51°36.660'N 003°58.140'E		January 2018 Until End of March 2018
Titan Environmental Surveys Ltd Titan Endeavour 2ELT9	N/A	51°35.100'N 004°00.060'E 51°34.080'N 003°56.880'E 51°32.880'N 003°52.200'E 51°34.020'N 003°47.160'E 51°37.320'N 003°50.340'E 51°36.660'N 003°58.140'E		January 2018 Until End of March 2018