

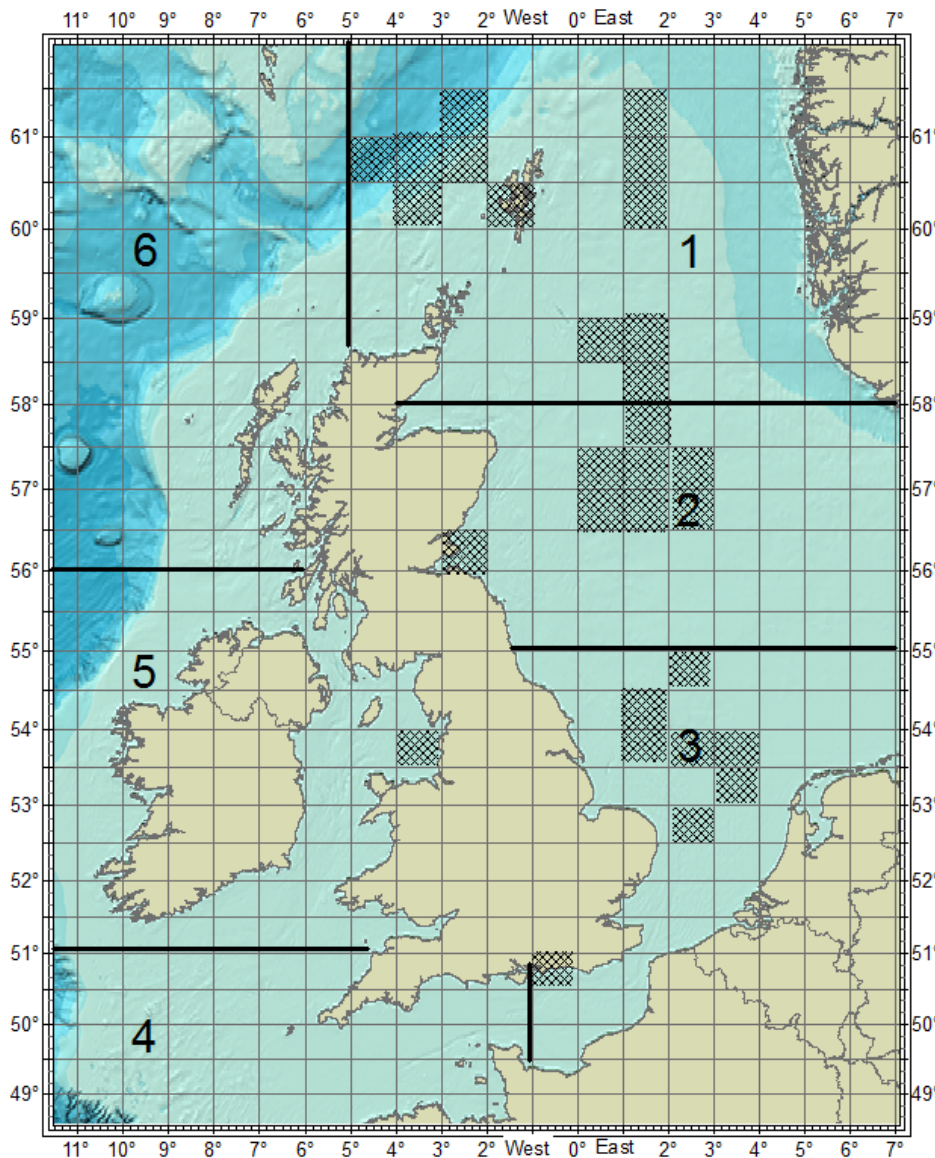
# The Kingfisher Bulletin

## Offshore News

OIL AND GAS

10 JANUARY 2019 | ISSUE 01

Shaded blocks indicate activity.



What's inside?

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1. Notice to Fishermen

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

**SEAFISH** | The Kingfisher  
Information Service

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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

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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
Heavy Weight & Dropped Wire	59°41.409'N 000°53.487'E	13 Dec 2018	Sheryl Grove, SFF, email: <a href="mailto:sff.services@sff.co.uk">sff.services@sff.co.uk</a>	
Heavy Weight & Chain & lost gear	58°47.352'N 000°45.976'E	29 Nov 2018	Bernie Bennett, Oil & Gas UK email: <a href="mailto:bbennett@oilandgasuk.co.uk">bbennett@oilandgasuk.co.uk</a>	
Free-spans on Gryphon Gas Export to Beryl Pipeline PL1894	59°22.630'N 01°33.968'E 59°22.646'N 01°33.962'E 59°22.777'N 01°33.917'E	29 Nov 2018	David Colliard, email: <a href="mailto:david.colliard@total.com">david.colliard@total.com</a>	
Lost Vibro Corer West of Shetland	60°21.430'N 003°51.360'W	20 Sept 2018	Raymond Hall, Tel: 01224 646944 email: <a href="mailto:R.Hall@sff.co.uk">R.Hall@sff.co.uk</a>	
New suspended wellhead on seabed (204/10a-5Y)	60°49.083'N 004°09.351'W	20 Sept 2018	Marcelle Wynter, DECC, Tel: 0300 067 1616 email: <a href="mailto:Marcelle.wynter@ogauthority.co.uk">Marcelle.wynter@ogauthority.co.uk</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>	


### Area 2 Hazard List

Hazard Type	Position	Issue Date	Contact Details	Map
Seabed Monitoring Units	57°04.719'N 002°04.309'E 57°05.810'N 002°02.255'E	13 Dec 2018	Nick Strachan, BP email: <a href="mailto:nick.strachan@uk.bp.com">nick.strachan@uk.bp.com</a>	
Heavy Weight & Chain & lost gear	57°05.810'N 002°02.255'E	15 Nov 2018	Bernie Bennett, Oil & Gas UK email: <a href="mailto:bbennett@oilandgasuk.co.uk">bbennett@oilandgasuk.co.uk</a>	
Lost steel drill and conductor casing.	56°16.450'N 002°15.170'W	04 Oct 2018	Sarah MacNab <a href="mailto:sarah@consult-poseidon.com">sarah@consult-poseidon.com</a> Tel: +44(0)7766 900074	
Lost a drill string	56°15.147'N 002°18.574'W	06 Sept 2018	Sarah MacNab <a href="mailto:sarah@consult-poseidon.com">sarah@consult-poseidon.com</a> Tel: +44(0)7766 900074	
Snagging Hazard at Abandoned Well 30/01c-9	56°50.655'N 002°10.022'E	04 Oct 2018	Nick Strachan, BP email: <a href="mailto:nick.strachan@uk.bp.com">nick.strachan@uk.bp.com</a>	

### Area 3 Hazard List

Hazard Type	Position	Issue Date	Contact Details	Map
Pipeline Span – Eni Hewett PL21 Length 15.02m x Height 0.92m	53°01.488'N 01°43.714'E To 53°01.486'N 01°43.701'E	10 Jan 2019	John Entwistle, ENI UK, Tel: +44(0) 20 7344 6342 email: <a href="mailto:John.Entwistle@eni.com">John.Entwistle@eni.com</a>	
Loss of approximately 35m of steel CPT rods 3.6cm Dia	54°45.505'N 001°44.479'E	06 Sept 2018	Dave Scott, SSE. Tel: +44(0)1738 516993 email: <a href="mailto:david.scott@sse.com">david.scott@sse.com</a>	
Wreck FV Sonja Z.19 Least Depth 35.15m, Surround Depths 45.5m Laying 45° to Port.	52°48.410'N 002°19.570'E	06 Sept 2018	Duty Officer, UKHO, Tel: +44(0)1823 353448 email: <a href="mailto:navwarnings@btconnect.com">navwarnings@btconnect.com</a>	
Anchor approx. 3.5m x 1.8m	50°41.147'N 000°17.657'W	28 June 2018	Gordon Bain (Eon Marine Coordination) +44(0)7787241442	

### Area 5 Hazard List

Hazard Type	Position	Issue Date	Contact Details	Map
100m Lost Tether 30mm diameter	53°48.000'N 003°34.000'W	01 Nov 2018	Robert Millman, Spirit Energy, Tel: +44(0)1224 411 690 email: <a href="mailto:Robert.millman@spirit-energy.com">Robert.millman@spirit-energy.com</a>	

## Notice to Fishermen

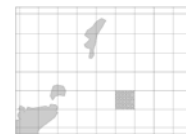
First Published: 13 December 2018 | Latest Update: 13 December 2018

## Fishing Hazard – Heavy Weight &amp; Dropped Wire



A fishing vessel has snagged and dropped a wire and extremely heavy weight (possible rig anchor) 7nm NW of Mariner FSO

Position: 59°41.409'N 000°53.487'E

For further information: Sheryl Grove, SFF, email: [sff.services@sff.co.uk](mailto:sff.services@sff.co.uk)

## Notice to Fishermen

First Published: 29 November 2018 | Latest Update: 29 November 2018

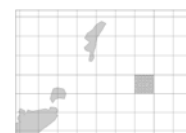
## Fishing Hazard – Free-spans on Gryphon Gas Export to Beryl Pipeline



Significant free-spans have been identified along the PL1894 Gryphon Gas Export to Beryl Pipeline.

Please exercise caution in this area

Start Position	End Position	Length (m)	Height (m)
59° 22.630' N 01° 33.968' E	59° 22.642' N 01° 33.964' E	22.4	0.8
59° 22.646' N 01° 33.962' E	59° 22.658' N 01° 33.958' E	22.0	0.8
59° 22.777' N 01° 33.917' E	59° 22.786' N 01° 33.914' E	17.3	0.9

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

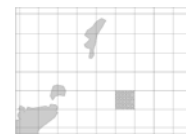
First Published: 29 November 2018 | Latest Update: 29 November 2018

## Fishing Hazard – Heavy Weight &amp; Chain



Please be advised that a Heavy Weight &amp; Chain has been snagged at the following position resulting in loss of gear.

Position: 58°47.352'N 000°45.976'E

For further information: Bernie Bennett, Oil & Gas UK email: [bbennett@oilandgasuk.co.uk](mailto:bbennett@oilandgasuk.co.uk)

## Notice to Fishermen

First Published: 20 September 2018 | Latest Update: 20 September 2018

## Suspended Wellhead – 204/10a-5y



Please be advised of the following Suspended Well

Structure	Operator	Position
204/10a-5Y	Siccar Point Energy E&P Limited	60°49.083'N 004°09.351'W

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

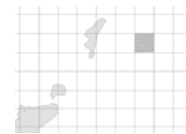
## Notice to Fishermen

First Published: 15 June 2017 | Latest Update: 06 September 2018

## 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)

## Notice to Fishermen

First Published: 20 September 2018 | Latest Update: 20 September 2018

## Fishing Hazard – Lost Vibro Corer West of Shetland



Please be advised that the Stirl Explorer managed to break away from the Vibro Corer, recovery failed and it has been left on the seabed in position

60°21.430'N 003°51.360'W

The Vibro corer is believed to have penetrated 3 metres into the seabed and is a hazard to fishing boats as its also standing a few metres off the seabed



For further information: Raymond Hall, SFF, Tel: +44 (0)1224 646944 email: [r.hall@sff.co.uk](mailto:r.hall@sff.co.uk)

## Notice to Fishermen

First Published: 09 August 2018 | Latest Update: 09 August 2018

## Fishing Hazard – Pelican Field Xmas Tree 211/26a-P8z



Please be advised that TAQA have installed a Xmas Tree at well 211/26a-P8z in the Pelican subsea field.

Position: 61°01.991'N 001°07.596'E



For further information: Natasha Dolecki, Taqa Bratani Limited, Tel: +44(0)1224 737633 email: [Natasha.Dolecki@taqaglobal.com](mailto:Natasha.Dolecki@taqaglobal.com)

## Notice to Fishermen

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

## Fishing Hazard – Miller Platform Decommissioned Jacket Footings



The Miller jacket was removed on the 12 July 2018, together with the two temporary nav aid lights. 4 Jacket footings and remains of the cut jacket remain in situ (rising up to 22m from the seabed) and offer a significant snagging risk.

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)

## 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)

## Seabed Activity

First Published: 20 September 2018 | Latest Update: 10 January 2019

## Kingfisher Field – Operations

Please be advised that the WilPhoenix arrival at Kingfisher will be 21st/22nd December 2018. expected duration of 100 days.

Drilling Rig/Ship	Installation / Well No	Position	Start / Finish	Duration
Wilphoenix	16/08a	58°46.283'N 001°29.438'E	2 <sup>nd</sup> December 2018	100 Days



For further information: Rafaella Madella, Shell UK Limited, Tel: +44 1224888909 email: [rafaella.madella@shell.com](mailto:rafaella.madella@shell.com)

## Seabed Activity

First Published: 10 January 2019 | Latest Update: 10 January 2019

## Lincoln Field – Drilling

Petrofac Facilities Management Ltd (PFML) propose to drill an appraisal well in the Lincoln field, west of Shetland. The well is in approximately 162 m of water. It will be drilled using the Transocean Leader, an anchored semi-submersible mobile drilling rig. The drilling rig requires that its eight anchors and ground chains are pre-laid on the seabed, which will commence on 15 January. The locations of these anchors are given in the Rig List section of the bulletin, with each of chains running in towards the central well location.



Drilling Rig/Ship	Installation / Well No	Position	Start / Finish	Duration
Transocean Leader	Lincoln Field	60°07.102'N 003°55.085'W	1st February 2019	80 Days

For further information: Kirsty McWilliam, Petrofac, Tel: +44(0) 131 257 4550, email: [Kirsty.McWilliam@petrofac.com](mailto:Kirsty.McWilliam@petrofac.com)

## Seabed Activity

First Published: 10 January 2019 | Latest Update: 10 January 2019

## Scott Field – Pipeline Works

Nexen Petroleum intends to undertake pipeline works in the Scott Field area, commencing 29th January 2019. The work comprises the installation of pipeline repair clamps on two water injection pipelines; one each on both the East Water Injection pipeline and South Water Injection pipeline between the Scott PLEM and the respective Water Injection manifolds.



It is anticipated that the work will be completed over a 4 day period and involves the installing of the clamps and protective mattresses.

Vessel activity in the area is as follows:

Operations	Vessel	Mobilisation	In Telford Field
Pipeline Clamps Installation (2 off)	Seven Kestrel	29/01/19	30/01/19 – 03/02/19

Key coordinates:

Field Location	Location
East WI Pipeline repair location (PL827)	58°16.878'N 000°14.890'E
South WI Pipeline repair location (PL829)	58°15.943'N 000°12.363'E

For further information: Colin Strachan, Nexen Petroleum UK Ltd, +44(0)7843 258613 email: [cstrachan@westoncompliance.com](mailto:cstrachan@westoncompliance.com)

## Seabed Activity

First Published: 04 October 2018 | Latest Update: 21 December 2018

## BigFoot, PiP, Verbier – Drilling Activity

Drilling activity with the 'West Phoenix' on location at the following locations and approximate dates:

Well Name	Coordinates	Estimated Start Date	Comments
BigFoot	59°19.682'N 001°21.663'E	January	Pre-lay moorings have been installed – Guard Vessel being utilised until rig/ERRV arrival on location
PiP	58°39.194'N 000°50.995'E	TBC	Pre-lay moorings to be installed approximately 1 week prior to rig arrival – Guard Vessel to be utilised until rig/ERRV arrives
Verbier	57°56.503'N 000°06.135'W	TBC	Pre-lay moorings to be installed approximately 1 week prior to rig arrival – Guard Vessel to be utilised until rig/ERRV arrives

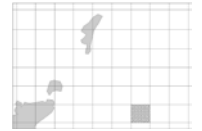


For further information: Euan Simpson, Equinor (Production) UK Limited, Tel: 07557 161705, email: [eusi@equinor.com](mailto:eusi@equinor.com)

## Telford Field – Pipelay

**Nexen Petroleum intends to undertake pipeline works in the Telford Field area, commencing 8th December 2018. The works comprise the installation of a 3.75km 7" flexible water injection pipeline, between the Central Telford Manifold (CTM) and the West Telford Flowline Isolation Skid (WTF-IS).**

The pipeline will be laid on the seabed at this time, but final hook-up and protection deposits will be completed in February 2019. In the interim, Nexen will deploy a guard vessel to patrol the area.



Vessel activity in the area is as follows:

Operations	Vessel	Mobilisation	In Telford Field
Pipeline Lay	Seven Navica	07/12/18	08/12/18 – 15/12/18

Key coordinates:

Field Location	Location
Telford Field - CTM	58°13.071'N 000°14.962'E
Telford Field – WTF-IS	58°14.300'N 000°12.506'E

For further information: Colin Strachan, Nexen Petroleum UK Ltd, +44(0)7843 258613 email: [cstrachan@westoncompliance.com](mailto:cstrachan@westoncompliance.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
TBC	Commissioning Support	TBC	TBC

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 452125, e-mail: [sdempster@petrex.co.uk](mailto:sdempster@petrex.co.uk)

**Lancaster Field – Development**

The Aoka Mizu FPSO is currently in Rotterdam. The FPSO will be transiting to field on the 15th December 2018 (at the earliest) as part of the Lancaster EPS Development Project. The transit is expected to take approximately 6 days with the FPSO due on location on 21st December 2018 (at the earliest).



The Lancaster Turret Mooring System (TMS) is installed with the TMS buoy sitting 20m below the sea surface. The buoy is moored in place by 12 wire and chain mooring lines that extend up to 1290m from the TMS buoy to driven piles. The mooring system will remain in this configuration with the buoy at -20m until the FPSO arrives.

The co-ordinates for the operations are listed below:

	Coordinates	
LDC5 Manifold Centre	60° 11.947'N	03° 51.859'W
Aoka Mizu FPSO Turret Centre	60° 10.794'N	03° 52.196'W

For further information: Jo Valentine, Hurricane Energy, T +44 1224 548580 email: [Jo.Valentine@hurricaneenergy.com](mailto:Jo.Valentine@hurricaneenergy.com)

**Pelican Field Programme – Well Abandonment**

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

The planned operations will consist of abandoning the reservoirs and removing the existing Xmas Trees of six wells within the subsea field. Operations will be conducted by the Paragon MSS1 semi-submersible drilling rig, with operations expected to commence on July 26th and last for six months. 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.



The co-ordinates for the proposed operations are listed 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: 13 December 2018 | Latest Update: 13 December 2018

## Fishing Hazard – Seabed Monitoring Units



The Seabed Monitoring Units have been deployed around the Machar Field, 2 within the statutory 500m zones & 2 outside. The Units (hexagonal pyramids in shape) are 1.5m x 1.5m at the base with a height of 0.8m above seabed. Each of the Units weighs approximately 250kg. (there is no current recovery date).



Machar within 500m Safety Zone	57°04.804'N 002°05.108'E
Machar East within 500m Safety Zone	57°04.672'N 002°06.450'E
Outside 500m safety Zone	57°04.719'N 002°04.309'E
Outside 500m Safety Zone	57°05.810'N 002°02.255'E

For further information: Nick Strachan, BP email: [nick.strachan@uk.bp.com](mailto:nick.strachan@uk.bp.com)

## Notice to Fishermen

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

## Fishing Hazard – Heavy Weight &amp; Chain



Please be advised that a Heavy Weight & Chain has been snagged at the following position resulting in loss of gear.

Position: 57°43.204'N 001°04.895'E



For further information: Bernie Bennett, Oil & Gas UK email: [bbennett@oilandgasuk.co.uk](mailto:bbennett@oilandgasuk.co.uk)

## Notice to Fishermen

First Published: 18 October 2018 | Latest Update: 18 October 2018

## Abandoned Wellheads 2018



In September/October 2018 overtrawlability trials were conducted at several abandoned wellhead sites in the North Sea. The purpose of the trawl sweeps is to determine whether or not abandoned wellhead locations have been successfully cleared of all snagging hazards/debris that could pose a concern to fishermen.

The results are shown below:

Well	Position	Result
30/01c-9	56° 50.657' N 02° 10.019' E	Foul, area should be avoided
22/22b-5z	57° 12.499' N 01° 14.678' E	Clear, see below note

NOTE: There were two snaggings at 57° 12.05'N, 001° 13.88'E during sweeps of Well 22/22b-5z, however it is believed that this was caused by firmer ground at this position, approx. 0.6 miles West of the wellhead.

For further information: Greg Wood, SFF, Tel: +44(0)1224 646966 email: [G.wood@sff.co.uk](mailto:G.wood@sff.co.uk)

## Notice to Fishermen

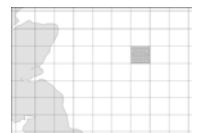
First Published: 04 October 2018 | Latest Update: 04 October 2018

## Fishing Hazard – Abandoned Well 30/01c-9 (Kessog Well)



As part of the Ocean Trust trawl sweep of well 30/01c-9 they snagged approx. 8 metres from the well position. The snagging could be due to cracked concrete around the drill centre that will require remedial work before a clearance certificate can be issued.

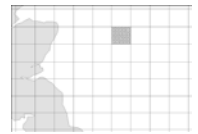
Position: 56°50.655'N 002°10.022'E



For further information: Nick Strachan, BP email: [nick.strachan@uk.bp.com](mailto:nick.strachan@uk.bp.com)

**Rowallan** – Exploration Well Operations

Eni UK Ltd is planning to drill the Rowallan Exploration Well, located in UKCS Block 22/19 in the Central North Sea. Drilling operations will be undertaken by the Ensco 121 heavy duty jack-up rig. The Ensco 121 is currently in Dundee.



Eni UK Ltd is planning to tow the Ensco 121 rig to the Exploration Well location on the 05th December 2018. The towing operations are expected to take approximately 2 days with the rig due on location on the 07th December 2018. The drilling operations are anticipated to last a maximum of 150 days and the latest end date for the drilling operations is anticipated to be 31st May 2019.

Vessels involved will be confirmed closer to the date of rig departure.

**Coordinates**  
57°21.250'N 01°46.903'E

**For further information:** David Hobden, Eni UK Ltd, Tel: +44 207344/6251 email: [David.Hobden@external.eni.com](mailto:David.Hobden@external.eni.com) ; Magda Kos, Eni UK Ltd, Tel: +44 2073446252 email: [Magdalena.Kos@eni.com](mailto:Magdalena.Kos@eni.com)

## Seabed Activity

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

**Janice Field** – Pre-Lay Activities – UKCS 30/17

Total E&P North Sea Ltd are carrying out mooring prelay activities at the Janice field. Until the rig arrives on site a guard vessel will be present (Willing Lad, Call sign: 2DOB3).



The intended anchor positions are:

Ocean Valiant prelay mooring pattern – anchor list – Janice location UKCS 30/17

1	56°23.293'N	02°13.626'E	5	56°23.913'N	02°16.723'E
2	56°24.017'N	02°13.623'E	6	56°23.340'N	02°16.680'E
3	56°24.555'N	02°14.594'E	7	56°22.860'N	02°15.815'E
4	56°24.455'N	02°15.825'E	8	56°22.762'N	02°14.585'E

Please exercise caution in this area due to the pre-laid anchors and mooring lines.

**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: 09 August 2018 | Latest Update: 09 August 2018

**Nexen Glengorm** – Drilling Operations

Nexen Petroleum UK Limited is planning to drill at the 22/21c-M (Glengorm) location in the UK Central North Sea.



Drilling Rig/Ship	Installation / Well No	Position	Start / Finish	Duration
Paragon Prospector 5 ERRV: Esvagt Capri	Glengorm 22/21c-M	57°10.644'N 001°07.066'E	20/08/2018	146 Days

**For further information:** John Campbell, Anatec Limited, Tel: +44 1224 253700 email: [aberdeen@anatec.com](mailto:aberdeen@anatec.com)

## Notice to Fishermen

First Published: 10 January 2019 | Latest Update: 10 January 2019

## Fishing Hazard – Free-spans on ENI Hewett PL21



Significant free-spans have been identified along the Eni Hewett PL21. 2.45nm from Platform 48/29A-P

Please exercise caution in this area

Start Position	End Position	Length (m)	Height (m)
53° 01.488' N 01° 43.714' E	53° 01.486' N 01° 43.701' E	15.04	0.92

For further information: John Entwistle, ENI UK, Tel: +44(0) 20 7344 6342 email: [John.Entwistle@eni.com](mailto:John.Entwistle@eni.com)

## Notice to Fishermen

First Published: 06 September 2018 | Latest Update: 06 September 2018

## Fishing Hazard – Wreck FV Sonja Z.19



Please note position of the Wreck FV Sonja Z.19 Least Depth 35.15m, Surround Depths 45.5m Laying 45° to Port.

Position: 52°48.410'N 002°19.570'E

For further information: Duty Officer, UKHO, Tel: +44(0)1823 353448 email: [navwarnings@btconnect.com](mailto:navwarnings@btconnect.com)

## Seabed Activity

First Published: 01 November 2018 | Latest Update: 01 November 2018

## Audrey – Well Abandonment

Please be aware the Paragon B391 will be moving from the Annabel to Audrey WD Platform.

Field	Well	Position	Start / Finish	Duration
Audrey	Audrey WD	53°32.424'N 002°00.948'E	26/10/2018	180 Days

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

## Seabed Activity

First Published: 18 October 2018 | Latest Update: 18 October 2018

## Greater Cygnus Area – Drilling Operations

Neptune E&amp;P UK Ltd plan to move the Ensco 101 MODU to block 44/12b to commence drilling of a single exploration well on the 19th October.

Drilling Rig/Ship	Installation / Well No	Position	Start / Finish	Duration
Ensco 101	44/12b-G	54°37.752'N 002°20.175'E	19/10/2018 19/01/2019	92 Days

For further information: David Hawkins, Neptune E&P UK Ltd, Tel: 01224 281082 email: [David.hawkins@neptuneenergy.com](mailto:David.hawkins@neptuneenergy.com)

## Deployment of Buoys

First Published: 29 November 2018 | Latest Update: 29 November 2018

## Site of War Mehtar Wreck – Oceanographic Equipment

There will be a seabed Lander and a yellow toroidal guard buoy at the site. The buoy is fitted with a radar reflector and will display a yellow light exhibiting the sequence FI Y (5) 20s. From 14<sup>th</sup> November – 31 March 2019

52°36.520'N 002°09.050'E

For further information: Cefas, [Tel:+44\(0\)1502 524504](tel:+44(0)1502524504)

## Notice to Fishermen

First Published: 01 November 2018 | Latest Update: 01 November 2018

## Fishing Hazard – Lost Tether



Please be advised that 100m of Soft Tether 30mm in diameter was lost at the position below

Position: 53°48.000'N 003°34.000'W

The Tether parted as a result of contact with a vessel thruster. When the ROV became detached the current drifted the ROV in current to the south west of the DP3 asset.



For further information: Robert Millman, Spirit Energy, Tel: +44(0)1224 411 690 email: [Robert.millman@spirit-energy.com](mailto:Robert.millman@spirit-energy.com)

## Seabed Activity

First Published: 07 December 2018 | Latest Update: 07 December 2018

## Douglas Field – Well Servicing

Please be informed that the Irish Sea Pioneer is currently scheduled to be in the Douglas Field at Douglas Wellhead Platform from 11th December 2018 for approximately 90 days

Drilling Rig/Ship	Installation / Well No	Position	Start / Finish	Duration
Irish Sea Pioneer	110/13D	53°32.323'N 003°34.619'W	11/12/2018	90 Days



For further information: Alec Townley, Petrofac, Tel: +44 1352 843353 email [@alec.towley@petrofac.com](mailto:alec.towley@petrofac.com)

**Area 1 Rig List**

Latest Update: 10 January 2018

MOVEMENT	RIG	POSITION	MOVEMENT	RIG	POSITION
	Rowan Gorilla 7	58°01.70'N 01°42.90'E	<b>New</b>	COSL Promoter	60°43.90'N 03°34.60'E
<b>New</b>	EnSCO 72	58°17.20'N 03°12.30'W		Songa Endurance	60°48.00'N 03°26.50'E
	Maersk Integrator	58°34.30'N 01°41.80'E	<b>New</b>	Songa Equinox	60°50.90'N 03°34.80'E
<b>New</b>	Wilphoenix	58°46.30'N 01°29.50'E		Paragon MSS1	61°02.00'N 01°07.80'E
	Maersk Intrepid	59°02.20'N 02°13.50'E	<b>New</b>	Deepsea Bergan	61°05.00'N 03°20.90'E
<b>New</b>	Ocean Patriot	59°22.80'N 01°40.80'E		Transocean 712	61°17.60'N 01°28.30'E
	Ocean Valliant	59°34.90'N 01°39.30'E		Leiv Eiriksson	63°55.00'N 07°18.00'E
	Safe Boreas	59°35.20'N 01°03.20'E		Scarabeo 8	64°35.80'N 06°51.30'E
	Noble Lloyd Noble	59°35.40'N 01°03.40'E		West Phoenix	64°48.50'N 06°26.90'W
	Transocean Leader	59°55.90'N 01°03.40'E		Transocean Enabler	64°52.00'N 06°50.30'E
<b>New</b>	Deepsea Aberdeen	60°24.70'N 04°03.20'W			

**Area 2 Rig List**

Latest Update: 10 January 2018

MOVEMENT	RIG	POSITION	MOVEMENT	RIG	POSITION
	Noble Sam Turner	55°28.10'N 05°08.10'E	<b>New</b>	Safe Scandinavia	57°06.90'N 02°50.60'E
	Maersk Guardian	55°43.40'N 04°48.00'E		Prospector 5	57°10.70'N 01°06.60'E
	Maersk Reacher	56°16.80'N 03°24.00'E		Maersk Highlander	57°11.70'N 01°54.80'E
	Rowan Viking	56°30.70'N 03°54.80'E	<b>New</b>	EnSCO 121	57°21.00'N 01°48.10'E
<b>New</b>	EnSCO 120	56°43.50'N 02°12.50'E		Maersk Innovator	57°48.60'N 00°58.30'W
	Rowan Gorilla V	56°58.02'N 01°52.19'E		Rowan Stavanger	57°48.90'N 04°32.10'E
	Noble Sam Hartley	57°00.80'N 01°50.40'E		Paul B Loyd Jnr	57°58.20'N 00°53.70'E
<b>New</b>	Maersk Interceptor	57°06.90'N 03°03.40'E			

**Area 3 Rig List**

Latest Update: 10 January 2018

MOVEMENT	RIG	POSITION	MOVEMENT	RIG	POSITION
	GMS Endurance	52°15.00'N 03°30.50'E		Paragon B391	53°32.40'N 02°00.90'E
<b>New</b>	Prospector 1	52°29.80'N 04°12.19'E		Seafox 1	53°42.20'N 01°09.00'E
	Seafox 4	53°00.60'N 02°11.10'E	<b>New</b>	Paragon C20051	53°43.60'N 03°48.30'E
	590021	53°14.00'N 03°14.50'E		Noble Hans Deul	53°56.40'N 02°44.80'E
	EnSCO 92	53°21.40'N 02°02.40'E	<b>New</b>	EnSCO 101	54°34.20'N 02°17.60'E
<b>New</b>	EnSCO 122	53°27.70'N 01°55.20'E	<b>New</b>	Maersk Resolute	54°56.70'N 04°43.30'E
<b>New</b>	Energy Endeavour	53°31.50'N 01°09.60'E			

**Area 5 Rig List**

Latest Update: 10 January 2018

MOVEMENT	RIG	POSITION	MOVEMENT	RIG	POSITION
<b>New</b>	Irish Sea Pioneer	53°38.80'N 03°28.70'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: 10 January 2019

Transocean Leader – Pre-Laid - Lincoln Field, West of Shetland

Anchor No.	Position	Anchor No.	Position	Anchor No.	Position
Rig	60°07.102'N 003°55.085'W	3	60°08.171'N 003°54.204'W	6	60°06.073'N 003°54.300'W
1	60°07.485'N 003°57.161'W	4	60°07.557'N 003°53.185'W	7	60°06.067'N 003°55.836'W
2	60°08.111'N 003°55.976'W	5	60°06.684'N 003°53.036'W	8	60°06.665'N 003°57.235'W

Deepsea Aberdeen – At Loyal Drill Centre

BP wish to advise that the Deepsea Aberdeen rig is now location at our Loyal drill centre. The location of the rig is below: 60° 24.665' N, 04° 03.243' W

The following anchors have been installed at Loyal in support of the operation, as well as these the 8 anchors from the previous location (Schiehallion Central) have been left in place:

Anchor No.	Position	Anchor No.	Position	Anchor No.	Position
		3	60°26.228'N 04°03.913'W	6	60°23.880'N 04°00.394'W
1	60°24.324'N 04°06.280'W	4	60°26.052'N 04°01.537'W	7	60°23.222'N 04°01.963'W
2	60°25.509'N 04°05.911'W	5	60°25.069'N 04°00.045'W	8	60°23.343'N 04°04.769'W

Schiehallion Central – As Left Anchors

Anchor No.	Anchor Position	Chain End	Laydown Pennant
1	60° 19.778' N 04° 05.079' W	60° 19.985' N 04° 03.616' W	60° 20.044' N 04° 03.198' W
2	60° 20.768' N 04° 04.595' W	60° 20.635' N 04° 04.000' W	60° 20.802' N 04° 04.184' W
3	60° 21.370' N 04° 02.987' W	60° 21.146' N 04° 02.797' W	60° 20.948' N 04° 02.628' W
4	60° 21.584' N 04° 00.479' W	60° 20.925' N 04° 01.222' W	60° 20.737' N 04° 01.434' W
5	60° 20.619' N 03° 58.944' W	60° 20.412' N 04° 00.407' W	60° 20.353' N 04° 00.825' W
6	60° 19.430' N 03° 59.209' W	60° 19.798' N 04° 00.537' W	60° 19.903' N 04° 00.917' W
7	60° 18.673' N 04° 01.143' W	60° 19.398' N 04° 01.562' W	60° 19.605' N 04° 01.682' W
8	60° 18.820' N 04° 03.528' W	60° 19.479' N 04° 02.789' W	60° 19.667' N 04° 02.577' W

Ocean Valiant – Pre-Lay Balvenie Well 3/14

Anchor No.	Position	Anchor No.	Position	Anchor No.	Position
		3	60°33.429'N 001°46.611'E	6	60°32.162'N 001°49.478'E
1	60°32.079'N 001°44.877'E	4	60°33.484'N 001°47.389'E	7	60°31.381'N 001°48.135'E
2	60°32.998'N 001°44.867'E	5	60°32.847'N 001°48.715'E	8	60°31.398'N 001°46.332'E

WilPhoenix – Kingfisher 16/08a

Anchor No.	Position	Anchor No.	Position	Anchor No.	Position
Rig		3	58°46.458'N 001°30.896'E	6	58°45.427'N 001°28.263'E
1	58°47.170'N 001°28.971'E	4	58°45.814'N 001°30.889'E	7	58°45.901'N 001°27.573'E
2	58°46.952'N 001°30.209'E	5	58°45.300'N 001°29.760'E	8	58°46.732'N 001°27.652'E

– Rhum R3

Anchor No.	Position	Anchor No.	Position	Anchor No.	Position
		2	60°06.911'N 001°43.311'E	4	60°06.901'N 001°43.251'E
1	60°06.922'N 001°43.284'E	3	60°06.889'N 001°43.283'E		

Ocean Valiant – Pre-Lay Leadon North 9/19a

Anchor No.	Position	Anchor No.	Position	Anchor No.	Position
		3	59°35.77'N 001°38.42'E	6	59°34.44'N 001°41.03'E
1	59°34.44'N 001°37.30'E	4	59°35.77'N 001°39.93'E	7	59°33.83'N 001°39.95'E
2	59°35.12'N 001°37.24'E	5	59°35.17'N 001°41.06'E	8	59°33.88'N 001°38.41'E

Ocean Guardian – Proposed West Wick 13/21a

Anchor No.	Position	Anchor No.	Position	Anchor No.	Position
Rig	58°17.606'N 001°50.991'W	3	58°18.392'N 001°51.341'W	6	58°17.328'N 001°49.605'W
1	58°17.347'N 001°52.386'W	4	58°18.316'N 001°50.385'W	7	58°16.819'N 001°50.462'W
2	58°17.925'N 001°52.342'W	5	58°17.864'N 001°49.595'W	8	58°16.895'N 001°51.596'W

## Aoka Mizu FPSO – Lancaster Field

Anchor No.	Anchor Position	Anchor Position
Rig	60°10.79'N 03°52.20'W	
1	60°10.69'N 03°50.98'W	7 60°10.31'N 03°53.19'W
2	60°10.66'N 03°50.99'W	8 60°10.34'N 03°53.24'W
3	60°10.63'N 03°51.01'W	9 60°11.37'N 03°52.62'W
4	60°10.60'N 03°51.03'W	10 60°11.38'N 03°52.56'W
5	60°10.26'N 03°53.09'W	11 60°11.39'N 03°52.50'W
6	60°10.28'N 03°53.14'W	12 60°11.40'N 03°52.44'W

## Transocean Leader – 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

## 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

### Area 2 Anchor List

Latest Update: 10 January 2019

## Ocean Valiant – Pre-Lay Janice Field 30/17

Anchor No.	Position	Anchor No.	Position	Anchor No.	Position
		3	56°24.555'N 002°14.594'E	6	56°23.340'N 002°16.680'E
1	56°23.293'N 002°13.626'E	4	56°24.455'N 002°15.825'E	7	56°22.860'N 002°15.815'E
2	56°24.017'N 002°13.623'E	5	56°23.913'N 002°16.723'E	8	56°22.762'N 002°14.585'E

## 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

## Culzean – Culzean FSO Anchors

Anchor No.	Anchor Position	Chain End	Anchor Position	Chain End
			7 57°11.068'N 001°58.558'E	57°11.143'N 001°58.456'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	57°11.167'N 001°58.509'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	57°12.364'N 001°58.326'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	57°12.381'N 001°58.266'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	57°12.397'N 001°58.203'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	57°12.412'N 001°58.138'E
6	57°11.039'N 001°58.495'E	57°11.117'N 001°58.404'E		

### Area 1 Survey List

Latest Update: 10 January 2018

Company & Vessels	Towed Cable Length & Depth	Area Covered 1 (inc Quod Blocks)	Area Covered 2 (inc Quod Blocks)	Duration
Equinor UK Ltd		59°19.677'N 001°21.666'E	9	14/11/2018 - 30/04/2019 For 1 Day
Schlumberger		58°17.198'N 003°12.435'W	11	01/01/2019 - 28/02/2019
Fugro GB (North)/Marine Ltd Fugro Venturer C6CG3	1350m 3m	58°05.009'N 002°08.557'W 58°08.779'N 002°08.467'W 58°08.728'N 002°01.336'W 58°04.958'N 002°01.439'W	12	10/12/2018 - 28/02/2019 For 5 Days
From Drilling Rig		58°39.158'N 000°50.897'E	15	30/11/2018 - 30/04/2019 For 0.75 Days
Gardline Limited Sea Explorer C6NG6		60°47.647'N 001°46.855'E 60°44.655'N 001°53.193'E 60°41.554'N 001°47.086'E 60°44.542'N 001°40.747'E	3	21/11/2018 - 28/02/2019 For 4 Days

Baker Hughes TBA	2m 2m	60°49.902'N 001°42.964'E 60°49.902'N 001°45.130'E 60°48.402'N 001°45.197'E 60°48.386'N 001°42.980'E	206	01/11/2018 - 31/01/2019 For 2 Days
TBC	2m 5m	60°54.166'N 002°18.160'W 60°56.983'N 002°13.044'W 60°56.650'N 002°12.210'W 60°53.800'N 002°17.260'W	206	15/08/2018 - 31/01/2019 For 10 Days
GEO XYZ GeoOcean III LXGP	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	10/12/2018 - 31/01/2019 For 4 Days

## Area 2 Survey List

Latest Update: 10 January 2019

Company & Vessels	Towed Cable Length & Depth	Area Covered 1 (inc Quod Blocks)	Area Covered 2 (inc Quod Blocks)	Duration
Bibby Offshore Bibby Sapphire		56°51.119'N 02°01.117'E 56°50.724'N 02°01.918'E 56°51.941'N 02°04.078'E 56°52.336'N 02°03.338'E	30/1c & 30/1f	10/02/2019 For 4-5 Days
TBC	2m 5m	57°14.769'N 001°48.932'E 57°14.714'N 001°58.873'E 57°08.786'N 001°58.749'E 57°08.841'N 001°48.834'E	22	01/02/2019 - 31/03/2019 For 10 Days For 4-5 Days
Equinor UK Limited Performed from drilling rig		57°56.502'N 000°06.132'W	20	15/12/2018 - 31/05/2019 For 0.75 Days
Schlumberger		57°10.605'N 001°06.972'E	22	01/10/2018 - 30/06/2019 For 2 Days
Gardline Limited M V Vigilant MCJNS		56°44.893'N 002°12.276'E 56°43.471'N 002°15.199'E 56°42.081'N 002°12.358'E 56°43.527'N 002°09.679'E 56°44.020'N 002°18.633'E 56°42.689'N 002°24.803'E 56°39.417'N 002°22.174'E 56°40.931'N 002°16.059'E	30	07/01/2019 - 31/03/2019 For 7 Days

## Area 3 Survey List

Latest Update: 10 January 2019

Company & Vessels	Towed Cable Length & Depth	Area Covered 1 (inc Quod Blocks)	Area Covered 2 (inc Quod Blocks)	Duration
Fugro Survey Limited Skandi Carla C6RX4 Fugro Valkyrie 2BWA9 Skandi Olimpia C6XY8		53°08.532'N 001°39.721'E 53°04.626'N 001°55.600'E 53°00.862'N 001°32.305'E 52°58.587'N 001°50.850'E 52°58.541'N 001°36.046'E 52°53.094'N 001°25.851'E 52°51.046'N 001°29.324'E	48, 52	27/10/2018 - 31/01/2019 For 55 Days
Spirit Energy Resources Llimited N/A Performed from drilling rig		54°32.728'N 001°18.547'E	43	15/01/2019 - 31/08/2019 For 0.5 Days
Gardline Ltd M V Vigilant MCJNS		54°15.763'N 002°09.053'E 54°14.649'N 002°11.015'E 54°13.551'N 002°09.029'E 54°14.664'N 002°07.153'E 54°25.194'N 002°39.842'E 54°23.998'N 002°41.569'E 54°22.991'N 002°39.519'E 54°24.186'N 002°37.792'E 54°27.223'N 002°17.987'E 54°26.015'N 002°19.691'E 54°25.022'N 002°17.620'E 54°26.229'N 002°15.915'E	53°23.917'N 002°06.690'E 53°22.619'N 002°08.902'E 53°21.307'N 002°06.647'E 53°22.644'N 002°04.537'E 53°24.404'N 002°00.079'E 53°23.280'N 002°01.897'E 53°22.193'N 002°00.017'E 53°23.316'N 001°58.198'E 53°24.404'N 002°00.079'E 53°23.280'N 002°01.897'E 53°22.193'N 002°00.017'E 53°23.316'N 001°58.198'E 44, 49	07/01/2019 - 31/03/2019 For 10 Days
Gardline Geosurvey Ltd MV Sea Explorer C6NG6 C6CG3	750m 3m	54°58.029'N 000°44.695'E 54°54.796'N 000°44.875'E 54°54.690'N 000°39.264'E 54°57.923'N 000°39.076'E	42/4	01/01/2019 - 15/02/2019 For 3 Days
GEOxyz Offshore Geo Ocean III LXGP		54°24.226'N 002°39.637'E 54°20.583'N 002°51.966'E	44	28/11/2018 - 31/01/2019 For 7 Days

## Area 4 Survey List

Latest Update: 10 January 2019

Company & Vessels	Towed Cable Length & Depth	Area Covered 1 (inc Quod Blocks)	Area Covered 2 (inc Quod Blocks)	Duration
Schlumberger		50°39.226'N 001°49.910'W	98	01/01/2019 - 28/02/2019 For 1 Day