

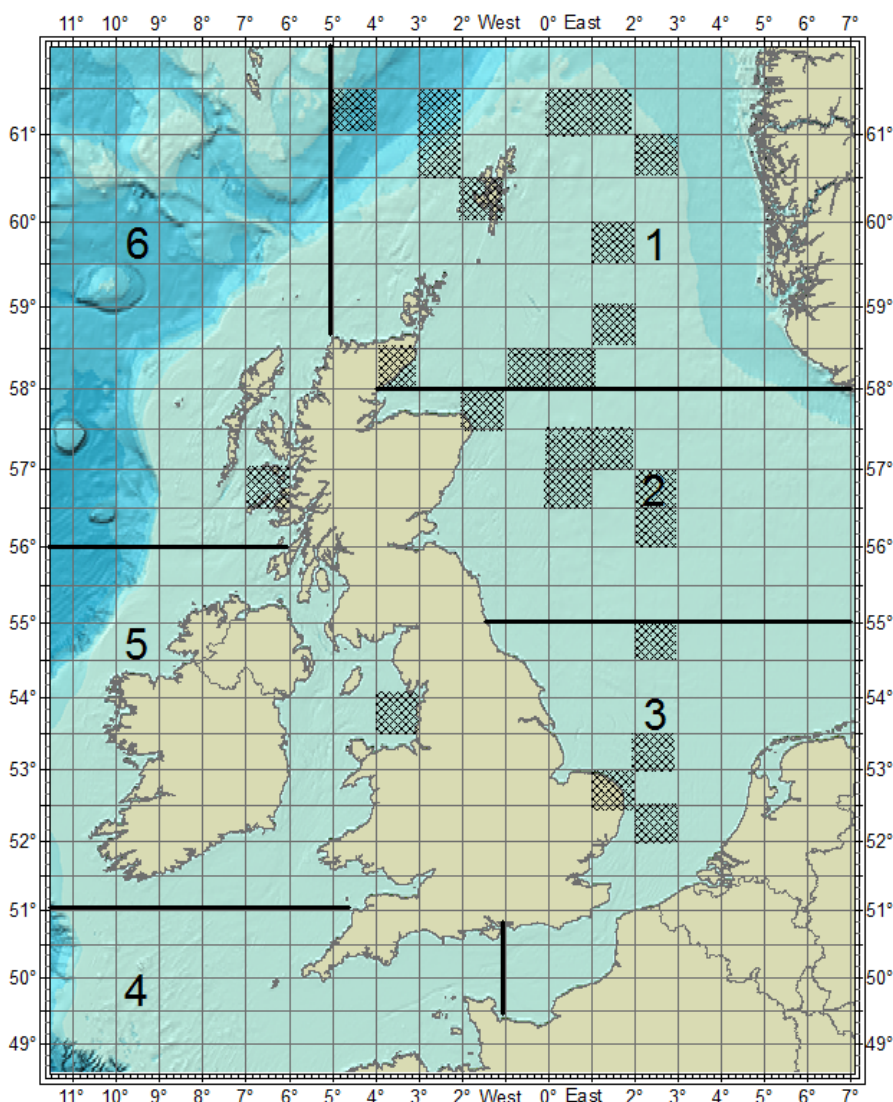
# Kingfisher Bulletin

## Offshore News

Oil & Gas

01 December 2016 | Issue 25

Shaded blocks indicate activity.



What's inside?

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## Support

The Kingfisher Bulletin is provided by the Kingfisher Information Service of Seafish, to promote the awareness of offshore hazards to fishing, new structures and zones and conflicting offshore operations. Support for the production of oil & gas industry information is received from FLTC Services Ltd.



## 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	
Concrete Mattress 13Te (6m x 3m x 300mm)	61°23.699'N 001°44.424'E	03 Nov 2016	<a href="mailto:nick.strachan@uk.bp.com">nick.strachan@uk.bp.com</a>		
Concrete Mattress 13Te (6m x 3m x 300mm)	61°22.779'N 001°43.834'E	03 Nov 2016	<a href="mailto:nick.strachan@uk.bp.com">nick.strachan@uk.bp.com</a>		
Grout Bags 80 bags, each measuring 25kg (400mm x 250mm x150mm)(LxBxH)	61°23.836'N 001°44.434'E	03 Nov 2016	<a href="mailto:nick.strachan@uk.bp.com">nick.strachan@uk.bp.com</a>		
Grout Bags 80 bags, each measuring 25kg (400mm x 250mm x150mm)(LxBxH)	61°23.831'N 001°44.437'E	03 Nov 2016	<a href="mailto:nick.strachan@uk.bp.com">nick.strachan@uk.bp.com</a>		
Grout Bags 80 bags, each measuring 25kg (400mm x 250mm x150mm)(LxBxH)	61°22.764'N 001°43.836'E	03 Nov 2016	<a href="mailto:nick.strachan@uk.bp.com">nick.strachan@uk.bp.com</a>		
Large Anchor	59°03.027'N 000°18.516'W	03 Nov 2016	<a href="mailto:bbennett@oilandgasuk.co.uk">bbennett@oilandgasuk.co.uk</a>		
New Suspended Wellhead – 205/21a-7Z	60°11.959'N 003°51.841'W	03 Nov 2016	<a href="mailto:kirsty.m@petrofac.com">kirsty.m@petrofac.com</a>		
Mooring Chain	61°28.514'N 004°30.905'W	22 Sept 2016	<a href="mailto:npoim@enquest.com">npoim@enquest.com</a>		
Enquest Water Injection Flowline - Crater	61°28.383'N 001°30.767'E	28 July 2016	<a href="mailto:Linda.Bremner@enquest.com">Linda.Bremner@enquest.com</a>		
Exposed cut end of pipe	61°04.102'N 001°24.107'E	14 July 2016	<a href="mailto:kingfisher@seafish.co.uk">kingfisher@seafish.co.uk</a>		

Area 2		Hazard List			
Hazard Type	Position	Issue Date	Contact Details	Map	
Kessog 30/01c-09-SSXT 2.75m protruding	56°50.662'N 002°10.008'E	22 Sept 2016	<a href="mailto:nick.strachan@uk.bp.com">nick.strachan@uk.bp.com</a>		
Cement Block	57°49.735'N 001°02.347'W	25 Aug 2016	<a href="mailto:Brian.Beattie@nexencnooltd.com">Brian.Beattie@nexencnooltd.com</a>		
New Suspended Wellhead – 21/19-13	57°22.931'N 000°43.018'E	28 July 2016	<a href="mailto:Marcelle.wynter@oga.gsi.gov.uk">Marcelle.wynter@oga.gsi.gov.uk</a>		

Area 3		Hazard List			
Hazard Type	Position	Issue Date	Contact Details	Map	
Hand rails, ladder 3m x 3m	53°39.656'N 000°54.364'E	01 Dec 2016	<a href="mailto:susan.mackenzie@centrica.com">susan.mackenzie@centrica.com</a>		
6 tonne elastomer buoy	53°23.917'N 002°14.033'E	06 Oct 2016	David King <a href="mailto:r92oim@enscoplc.com">r92oim@enscoplc.com</a>		
Lost Wire	53°24.177'N 002°13.896'E	06 Oct 2016	David King <a href="mailto:r92oim@enscoplc.com">r92oim@enscoplc.com</a>		
Dropped objects in East Anglia Wind Farm	52°16.665'N 002°31.323'E	14 July 2016	<a href="mailto:v.griffiths@fugro.com">v.griffiths@fugro.com</a>		

Area 5		Hazard List			
Hazard Type	Position	Issue Date	Contact Details	Map	
Lost Dredge Suction Pipe	53°26.943'N 003°24.691'W	15 Nov 2016	<a href="mailto:graham.singleton@cemex.com">graham.singleton@cemex.com</a>		

**The Hazard List is a collection of potential fishing hazards supplied to Kingfisher from across all offshore industries. Potential hazards will be listed for 6 months.**

## Notice to Fishermen

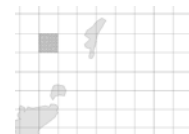
First Published: 03 November 2016 | Latest Update: 03 November 2016

## Suspended Wellhead – Structure On the Seabed



Please be advised that the suspended wellhead below, should be added to your Kingfisher Yellow Card Edition July 2016.

Structure	Operator	Position
205/21a-7Z	Petrofac	60°11.959'N 003°51.841'W



For further information: Kirsty McWilliam, Petrofac, [kirsty.m@petrofac.com](mailto:kirsty.m@petrofac.com)

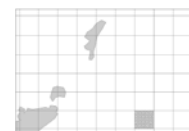
## Notice to Fishermen

First Published: 03 November 2016 | Latest Update: 03 November 2016

## Abandoned Wellhead – Structure Removed from Seabed

Please be advised that the abandoned wellhead below, should be removed from your Kingfisher Yellow Card July 2016.

Structure	Operator	Position
16/28-11	BP Exploration	58°07.609'N 001°27.953'E



For further information: Marcelle Wynter, DECC, [Tel:0300 0671616](tel:03000671616) [Marcelle.wynter@oga.gsi.gov.uk](mailto:Marcelle.wynter@oga.gsi.gov.uk)

## Notice to Fishermen

First Published: 03 November 2016 | Latest Update: 03 November 2016

## Fishing Hazard – Protective Structures



In support of Murchison decommissioning activities specifically the Murchison PL165 Gas Pipeline and Umbilical Suspension a series of protective structures have been put in place, namely 2 tapered concrete mattresses and a series of grout bag piles.

The following dimensions: 13Te (6m x 3m x 300mm)(LxBxH)

Hazard	Position
Concrete Mattress	61°23.699'N 001°44.424'E
Concrete Mattress	61°22.779'N 001°43.834'E

The following dimensions: Piles are approx. 80 bags, each measuring 25kg (400mm x 250mm x150mm)(LxBxH)

Hazard	Position
Grout Bags	61°23.836'N 001°44.434'E
Grout Bags	61°23.831'N 001°44.437'E
Grout Bags	61°22.764'N 001°43.836'E

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

## Notice to Fishermen

First Published: 03 November 2016 | Latest Update: 03 November 2016

## Fishing Hazard – Large Anchor



A fishing vessel has come fast at the position below, sustaining damage to gear and winch due to the excessive weight. Presumed to be a large anchor. Hazard to fishing, 13nm N of MCP01 platform

Position
59°03.027'N 000°18.516'W



For further information: Bernie Bennett, Oil & Gas UK Tel: 01590 643986 email: [bbennett@oilandgasuk.co.uk](mailto:bbennett@oilandgasuk.co.uk)

## Notice to Fishermen

First Published: 22 September 2016 | Latest Update: 22 September 2016

## Fishing Hazard – Mooring Chain



Please note that at anchor number 5 on Northern producer it was noticed during ROV operations that there was a pile of chain which does not match the chain utilised for mooring. The chain is believed to be the chain utilised for a hang off buoy.

**Position: 61°28.514'N 004°30.905'W**

Anchor handling operations are planned in H2 of 2016 and will further assess/potentially remove the chain. Possible danger to trawlers, the chain is located 1731m from the installation anchor 5 fairlead on a bearing of 138°



For further information: Martyn Woods, Enquest Heather Ltd, Tel: 01224 564200 email: [npoim@enquest.com](mailto:npoim@enquest.com)

## Seabed Activity

First Published: 17 November 2016 | Latest Update: 30 November 2016

## Eagle Project – UKCS Blocks 3/14a &amp; 3/15b

Please note that TEPUK will have a Dive Support Vessel, MV Bibby Polaris working within Dunbar Platform 500m safety zone & Ellon/Grant subsea 500m safety zone (marked with a buoy), for approximately 7 days from the 3rd December. Please continue to avoid these areas.

	Location	Coordinates
Dunbar		60°37.730'N 01°39.050'E
Ellon/Grant		60°35.850'N 01°48.340'E



For further information: Luis McArthur, Total, Tel:01224 297903 email: [Luis.mcarthur@total.com](mailto:Luis.mcarthur@total.com)

## Seabed Activity

First Published: 01 November 2016 | Latest Update: 29 November 2016

## Scapa Water Injection – Pipeline Replacement Operations

Offshore Campaigns upcoming;

- Pipeline tie-in operations to be undertaken by Seven Falcon circa 26<sup>th</sup> November to 14th December.

	Location	Coordinates
	Claymore A Platform (500m Safety Zone)	58°26.921'N 00°15.316'W
	CASWI Drill Template (500m Safety Zone)	58°25.885'N 00°15.637'W
	Scapa Drill Template (500m Safety Zone)	58°25.612'N 00°19.174'W
	Redundant PL367 crossing (within CASWI 500m Safety Zone)	58°25.880'N 00°15.700'W



For further information: Lilla Onodi, Repsol Sinopec, Tel: +44(1224) 353432 email: [Lilla.Onodi@repsolinopecuk.com](mailto:Lilla.Onodi@repsolinopecuk.com)

## Seabed Activity

First Published: 21 May 2014 | Latest Update: 29 November 2016

## Edradour / Glenlivet Field Development – Construction Activities

Please note that TEPUK have two new permanent subsea 500m safety zones which come into effect 14 July 2015 at Edradour & Glenlivet.

MV Morning Dawn (PD359), Call Sign: MHEU3, is acting as guard vessel part way between Edradour & Edradour PLEM at the following location: 60° 55.39' N 02° 23.73'W  
 MV Solstice (BF56), Call Sign: ZNOY6, is acting as guard vessel part way between Edradour & Glenlivet at the following location: 61° 00.28' N 02° 09.16' 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



The metocean buoy in the last issue has been removed from the field.

For further information: Luis McArthur, Total, Tel:01224 297903 email: [Luis.mcarthur@total.com](mailto:Luis.mcarthur@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

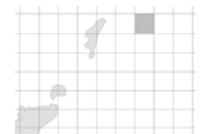
A guard vessel will be present in the area until the FSO arrives in late 2017.

*For further information: Luis McArthur, Total, Tel:01224 297903 email: Luis.mcarthur@total.com*

**Well Enhancer Campaign – UKCS Blocks 3/15a & 3/15c**

Please note that TEPUK will have a Dive Support Vessel, MV Well Enhancer working within Forvie North & Jura subsea 500m safety zones, for approximately 17 days from the 23rd November. Please continue to avoid these areas.

Location	Coordinates
Forvie North	60°30.710'N 01°50.020'E
Jura	60°32.650'N 01°53.980'E



*For further information: Luis McArthur, Total, Tel:01224 297903 email: Luis.mcarthur@total.com*

**Telford Piggig Project – Phase 2**

As part of the above project, Nexen Petroleum U.K. Limited (Nexen) is undertaking a subsea intervention campaign in the Telford Area (blocks 15/21a and 15/22 approximately 10km south of the Scott Field) commencing 2nd September 2016.

This subsea intervention campaign will consist of the following activities:  
 - The replacement of a section of 8" production pipeline;  
 - Additional deposits (outwith a Safety Zone) at the locations listed below.

The pipeline works will be carried out totally within a HSE recognised 500m safety zone at Marmion /West Telford Manifold (SI 1997/735). Primary Locations within the Safety Zone:

Location	Coordinates
North Tie In	58°14.303'N 000°12.469'E
Barred Tee	58°14.295'N 000°12.471'E
West Tie In	58°14.290'N 000°12.458'E
South Tie In	58°14.286'N 000°12.494'E

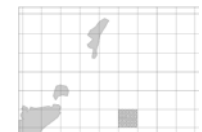
Primary Deposit Locations out width a Safety Zone

Concrete mattresses deposited at the shown locations, these may pose a snagging hazard to normal fishing operations:

Location	Coordinates
Area 1	58°16.357'N 000°12.456'E
Area 2	58°15.189'N 000°12.454'E
Area 3	58°15.134'N 000°12.459'E
Area 4	58°13.964'N 000°12.602'E
Area 5	58°16.422'N 000°12.409'E

The above work will be undertaken by the Seven Falcon (DSV) over a 14 day period commencing on 2<sup>nd</sup> September 2016.

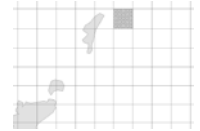
*For further information: : Ian Murphy, Tel: +44 (0)1224 371733 email: [ian.murphy@nexencnooc ltd.com](mailto:ian.murphy@nexencnooc ltd.com)*



## Western Isles Development – Permanent Infrastructure Installation



Dana has been undertaking drilling work in the northern North Sea (UKCS Block 210/24a) and there are two partly constructed wellheads (guide base and posts) that have been installed.



Structure	Position
210/24a-BUI4	61°11.766'N 000°43.649'E
210/24a-B9A	61°11.772'N 000°43.638'E

They are 15m apart from each other and we are currently awaiting the consent to locate approval for the permanent installation of these.

For further information: Nicola Bannigan, Dana Petroleum, Tel: +44 1224 616170 email: [Nicola.bannigan@dana-petroleum.com](mailto:Nicola.bannigan@dana-petroleum.com)

## Laggan / Tormore Yell Sound Shetland – Overtrawlability Sweeps

Overtrawlability sweeps are now complete in the following area. TEPUK in discussion with SFF / SFA regarding results, please continue to exhibit caution in this area:



60°45.280'N 001°15.010'W 60°29.050'N 001°15.310'W

For further information: Luis McArthur, Total, Tel: 01224 297903 email: [Luis.mcarthur@total.com](mailto:Luis.mcarthur@total.com)

## Notice to Fishermen

First Published: 22 September 2016 | Latest Update: 22 September 2016

## Fishing Hazard – Kessog 30/01c-09 Well Abandonment plans



As part of the Kessog 30/01c-09 well abandonment plans, the disconnected SSXT and wellhead are to be left in place until approx. summer 2017. The SSXT was disconnected and left approx. 20 metres from the wellhead, it has dimensions of 3m x 3m. The stick-up of the SSXT above the seabed is 2.75m.

Position: 56°50.662'N 002°10.008'E



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: 25 August 2016 | Latest Update: 25 August 2016

## Fishing Hazard near Buzzard – Cement Block



Please note that a Cement Block (1.5 metres long) Located 2NM of Buzzard Platform

Position: 57°49.735'N 001°02.347'W



For further information: Brian Beattie, Nexen Petroleum UK Ltd, Tel: +44(0)1224 371347 email: [brian.beattie@nexencnooclt.com](mailto:brian.beattie@nexencnooclt.com)

## Seabed Activity

First Published: 03 March 2014 | Latest Update: 03 October 2016

## Montrose BLP Project – Development Operations



## Offshore campaigns currently in progress or upcoming;

- Prosafe Operated Safe Boreas arrived at Montrose A 14th March. Flotel will operate in Combined Operations with the Montrose installation for 9-12 months.
- Nobel Regina Allen jack-up - On location 27th September, providing accommodation at Montrose A for 6 months.

Please note: HSE recognised 500m Safety Zone are now in force at the following:

Cayley drill centre 57°25.167'N 001°13.804'E Cayley/Montrose intermediate towhead 57°26.160'N 001°18.420'E  
Shaw Production drill centre 57°17.813'N 001°21.755'E Shaw WI drill centre 57°17.369'N 001°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°22.000'N 01°20.25'E	CATS T2

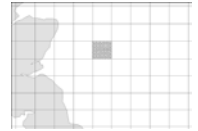
For further information: Lilla Onodi, Talisman, Tel:+44 (0)1224 358867 email: [LOnodi@talisman-sinopec.com](mailto:LOnodi@talisman-sinopec.com)





## 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



## Seabed Activity

Subsea installation works in the Catcher Area Development have come to end for this year. To date, the following have been installed:

## Drill Centre Templates:

- six (6) drilling template structures (elevation 9.2m above seabed) at the drill centres and coordinates listed below;

Structure	Coordinates
2 x drilling template structures at Varadero drill centre Varadero Drilling Template 1: Varadero Drilling Template 2:	56°48.366'N 00°42.258'E 56°48.369'N 00°42.337'E
2 x drilling template structure at Catcher drill centre Catcher Drilling Template 1: Catcher Drilling Template 2:	56°46.277'N 00°46.299'E 56°46.321'N 00°46.296'E
2 x drilling template structure at Burgman drill centre Burgman Drilling Template 1: Burgman Drilling Template 2:	56°44.542'N 00°40.640'E 56°44.566'N 00°40.581'E

Please note; Each drill centre has an approved HSE 500m safety exclusion zone in force.

- **Pipeline Bundles:**  
three (3) 3.5km pipeline bundles have now been installed on the seabed between each Drill Centre and the future FPSO location.
- **FPSO Mooring System:**  
twelve (12) piled anchors with chain and wire mooring legs (in 3 groups of 4 mooring legs) extending out approximately 1000m from the future Catcher FPSO location (56°46' 12.44" N and 00°42' 46.93" E), where the mooring lines are connected to a Submerged Turret Production buoy (STP) – top of buoy at 17m water depth. Please note, the STP buoy has its own approved HSE 500m safety exclusion zone.
- **Mid Water Arches and Gravity Base Structures**  
Three (3) x piled gravity base structures attached to 3 x mid-water arches (buoyancy units used to support risers positioned mid-water approximately 30m below sea surface and 80m from the future FPSO location).
- **Dynamic Risers & Umbilicals:**  
13 x dynamic risers and umbilicals connected to the STP Buoy and running in catenary over the mid-water arch buoys and down to the seabed. The risers and umbilicals then run along the seabed, to Riser Base Towheads that are also within the STP Buoy/Future FPSO location 500m zone.
- **Guard Vessel:**  
A Scottish Fishermen's Federation guard vessel GV Atlas FR101 is currently monitoring the STP Buoy location.

## Drilling

The ENSCO 100 Drilling Rig is currently on location at the Varadero Drilling Template #1 position (coordinates of Drill Centres above) and will remain at this location until the Spring 2017, when it will move to Burgman Drilling Template #1.

The standby vessel Grampian Deliverance is monitoring the rig's 500m zone throughout drilling operations.

For further information: Mike Jordan Premier Oil, Tel: 01224 615940 email: [mjordan@premier-oil.com](mailto:mjordan@premier-oil.com)

## 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 FPU has now been towed from location and the associated moorings and anchors have been recovered. The Janice Drill Centre location is being cleared of all flowlines and umbilicals, mid water arches and several small structures. In addition the flexible flowline and umbilical between Janice and James will also be recovered. Subsea facilities recovery operations are being performed from a construction support vessel the 'MSS Achiever', with the 'Resilient' providing long term guard vessel services.

The subsea wells at Janice and James will be plugged and abandoned commencing Q4 2016. The remaining subsea structures will be recovered in the future in accordance with the Decommissioning Programme.

A summary of the current/upcoming activities is as follows:

Facility / Installation	Block	Coordinates	Activity	Schedule
Janice 'A' FPU	30/17a	56° 23.876' N 02° 15.004' E	Disconnection of risers and moorings - Within existing safety zone	Work Complete
Janice 'A' FPU	30/17a	56° 23.876' N 02° 15.004' E	Recovery of FPU moorings and anchors and FPU tow away	Work Complete
Anchor 1	56°24.505'N 02°14.799'E			
Anchor 2	56°24.520'N 02°15.007'E			
Anchor 3	56°24.511'N 02°15.106'E			
Anchor 4	56°23.984'N 02°16.138'E			
Anchor 5	56°23.876'N 02°16.140'E			
Anchor 6	56°23.807'N 02°16.159'E			
Anchor 7	56°23.258'N 02°15.117'E			
Anchor 8	56°23.242'N 02°15.003'E			
Anchor 9	56°23.259'N 02°14.801'E			
Anchor 10	56°23.762'N 02°13.805'E			
Anchor 11	56°23.872'N 02°13.840'E			
Anchor 12	56°23.993'N 02°13.860'E			
Janice Drill Centre	30/17a	56° 23.706' N 02° 15.316' E	Recovery of risers, flowlines and spools; recovery of subsea structures; sinking / recovery of mid-water arches - Within existing safety zones.	Aug – Nov 2016
James Drill Centre (Well P8)	30/17a	56° 21.485' N 02° 18.835' E	Recovery of spools and jumpers - Within existing safety zone	Aug – Nov 2016
Janice Drill Centre to James Drill Centre	30/17a	56°23.706' N 02°15.316'E 56°21.485' N 02°18.835'E	Recovery of Flexible flowline and umbilical approx. 5.5km length	Oct – Dec 2016

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



## Culzean Field – Maersk Drilling

The Maersk Oil North Sea Ltd. Culzean Project in conjunction with Maersk Drilling plan to move the "Maersk Highlander" HDJU rig to the Culzean Field Development Area (Block 22/25A)

The Maersk Drilling "Maersk Highlander" HDJU rig was installed alongside the existing Culzean WHP Jacket on 4th September 2016. This HDJU rig will be located in the Culzean field for a period of approximately 5 years. The HDJU rig has now a 500m safety zone established for the duration of the works around the rig centre coordinates as detailed below:

Location	Coordinates
Maersk Drilling Highlander HDJU Rig Centre	57° 11.565' N 01° 54.645' E
Culzean Wellhead Jacket Structure	57° 11.547' N 01° 54.679' E

The UK Hydrographic Office has been informed and the Admiralty Charts for this development area location shall be updated to include the HDJU Rig location and established safety zone.

For further information: Max Ferran, Tel: +44 (0) 1224 242858, Email: [max.ferran@maerskoil.com](mailto:max.ferran@maerskoil.com) [www.maerskoil.com](http://www.maerskoil.com)



## Notice to Fishermen

First Published: 01 December 2016 | Latest Update: 01 December 2016

## Fishing Hazard – Handrails, ladder 3m x 3m



Please note that metal debris, appearance of handrails, two diagonal braces and a ladder. Size Approximately 3m x 3m

Position: 53°39.656'N 000°54.364'E

For further information: Susan Mackenzie, Centrica, email: [susan.mackenzie@centrica.com](mailto:susan.mackenzie@centrica.com)

## Notice to Fishermen

First Published: 06 October 2016 | Latest Update: 06 October 2016

## Fishing Hazard – 6 tonne elastomer buoy



Please note that a 6 tonne buoyancy surface support elastomer buoy with 5 metres pigtail pennant wire. Buoy is coloured bright yellow and has an approximate freeboard of 1.5 metres

Buoy has no light fitted.

Position: 53°23.917'N 002°14.033'E

For further information: David King, Ensco, Tel: 01224 366053 email: [r92oim@enscoplc.com](mailto:r92oim@enscoplc.com)

## Notice to Fishermen

First Published: 06 October 2016 | Latest Update: 06 October 2016

## Fishing Hazard – Lost Wire



Please note that a Ensco 92 on contract to ConocoPhillips was being towed from Victor JD platform to Vixen VM location with three towing vessels. As the rig was being positioned at Vixen's standoff location the tow wire from Bugsier 9 (tow vessel) parted close to the vessels stern. Ensco 92 was able to retrieve two sections (approx 60m) of the tow wire but the last section was lost to sea. The lost wire is 52mm diameter and 200 meters in length. Buoy has no light fitted.

Position: 53°24.177'N 002°13.896'E

For further information: David King, Ensco, Tel: 01224 366053 email: [r92oim@enscoplc.com](mailto:r92oim@enscoplc.com)

## Notice to Fishermen

First Published: 25 August 2016 | Latest Update: 25 August 2016

## Bacton to Hewitt – Pipeline Spans



New pipeline spans discovered on ENI's Bacton to Hewett pipeline (Approx. 8.5nm offshore). Please exercise caution.

Span	Position	Length / Height
Span 1	52°59.466'N 001°34.373'E to 52°59.445'N 001°34.327'E	65 m x 1.7 m
Span 2	52°59.618'N 001°34.695'E to 52°59.606'N 001°34.664'E	23 m x 0.7 m



For further information: Kingfisher – See details in footer

## Cygnus Field – Development Project – Subsea Installation update

ENGIE E&P Ltd is developing the Cygnus Field in Block 44/11a & 44/12a of the Southern North Sea. The development is centred on 3 fixed bridge-linked platforms which comprise the Cygnus Alpha Complex (Well-Head AWHP, Production and Utilities APU and the Utilities and Quarters AUQ).



There is also an additional satellite platform, Bravo Well-Head BWHP. An infield pipeline links the Bravo satellite to the Alpha Complex and product is ultimately exported via the ETS Pipeline system.

The upcoming subsea installation phase is due to commence mid October 2016, this form lists upcoming activities, key co-ordinates, details of the vessels involved and ENGIE E&P Ltd contacts.

Over the next 6 weeks the following works are planned: Subsea Operations

- Olympic Ares Construction Support Vessel shall wet store 12" pipeline spools at Cygnus Bravo
- Bibby Polaris Dive Support Vessel shall install infield umbilical and tie-in 12" pipeline spools between Cygnus Alpha and Bravo
- Fugro Saltire Trenching Support Vessel shall trench infield umbilical between Cygnus Alpha and Bravo
- Boskalis Rockpiper Dynamically Positioned Fallpipe Vessel shall conduct infield subsea

rock installation between Cygnus Alpha and Bravo

### Key Locations:

Structures	Coordinates	Structures	Coordinates
Cygnus AWH Platform	54°34.146'N 002°17.465'E	Cygnus BWH Platform	54°35.878'N 002°11.696'E
Cygnus APU Platform	54°34.118'N 002°17.385'E	Cygnus SSIV Manifold	54°34.159'N 002°17.320'E
Cygnus AUQ Platform	54°34.090'N 002°17.305'E	Cygnus WYE Manifold	54°18.030'N 001°40.578'E

Subsea Operations:

- Olympic Ares mobilising 12th October 2016
- Bibby Polaris mobilising 12th October 2016
- Fugro Saltire mobilising 18th October 2016
- Boskalis Rockpiper mobilising mid November 2016

For further information, David Hawkins, GDF Suez E&P UK Ltd, Tel: +44 1224 281 082 email: [david.hawkins@gdfsuezep.co.uk](mailto:david.hawkins@gdfsuezep.co.uk)

## Deployment of Buoys

First Published: 03 November 2016 | Latest Update: 11 November 2016

### Ramsgate Kent – Metocean Seabed Frame Deployments

Partrac Ltd., on behalf of DeepOcean, proposes to deploy three seabed mounted AWAC frames for a period of 30 days within 20 m of the target locations below near Ramsgate, Kent.



Deployments are estimated to be carried out over two days from 14th November 2016, weather permitting. Surface marker buoys will be deployed in the immediate proximity of the seabed frames with an amber navigation light set to flash 5 times at 1 Hz every 20 seconds (FI Y [5] 20 s). All equipment (including ground weights) will be removed at the end of the study.

Site	Coordinates
Site A	51°18.894'N 001°24.480'E
Site H	51°18.384'N 001°27.456'E
Gull Stream	51°18.870'N 001°31.278'E

For further information, Kevin Ransom, Partrac Ltd, Tel: 07810 055 685 email: [kransom@partrac.com](mailto:kransom@partrac.com)

## Deployment of Buoys

First Published: 03 November 2016 | Latest Update: 03 November 2016

### Ramsgate Kent – Metocean Seabed Frame Deployments

Partrac Ltd., on behalf of DeepOcean, proposes to deploy a shallow water seabed mounted Aquadopp frame for a period of 3-4 days within 20 m of the target location below in Pegwell Bay, Kent.



Deployment is estimated to be carried out from 1st November 2016, weather permitting, and a pellet buoy marker will be attached to the frame. All equipment will be removed from site 3-4 days after deployment.

Name	Coordinates
Aquadopp	51°19.170'N 001°23.579'E

For further information, Kevin Ransom, Partrac Ltd, Tel: 07810 055 685 email: [kransom@partrac.com](mailto:kransom@partrac.com)

## Liverpool Bay – Drilling Operations

Petrofac drilling operations

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	11/11/16	33 Days
Irish Sea Pioneer	Hamilton Field	53°33.958'N 003°27.270'W	14/12/16	2 Days



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

## Area 1 Rig List

Latest Update: 28 November 2016

MOVEMENT	RIG	POSITION	MOVEMENT	RIG	POSITION
	Sedco 712	58°02.00'N 00°43.70'E		Maersk Intrepid	60°30.30'N 02°00.80'E
	Blackford Dolphin	58°18.10'N 01°42.40'E		Safe Scandinavia	60°41.90'N 02°55.90'E
	Maersk Integrator	58°34.30'N 01°41.80'E		Flotel Victory	60°44.20'N 02°29.90'W
	Deepsea Atlantic	58°50.00'N 02°32.90'E		COSL Promoter	60°46.20'N 03°36.10'E
	Rowan Viking	58°50.60'N 02°14.90'E		Songa Equinox	60°49.80'N 03°34.20'E
<b>New</b>	Maersk Interceptor	58°55.30'N 02°11.80'E		West Epsilon	60°51.20'N 02°38.50'E
	Ocean Valiant	59°20.30'N 01°36.40'E		West Elara	61°02.30'N 02°20.30'E
	Noble Lloyd Noble	59°35.40'N 01°03.40'E		Borgland Dolphin	61°13.30'N 03°26.40'E
	Wilphoenix	59°36.00'N 01°19.20'E		Transocean Arctic	61°25.00'N 04°04.00'E
	Transocean Leader	59°53.90'N 01°16.90'E		Paul B Loyd Jr	61°35.20'N 01°18.60'E
	Transocean Spitsbergen	60°08.40'N 03°55.30'W	<b>New</b>	Scarabeo 5	64°16.00'N 07°12.00'E
	Deepsea Aberdeen	60°20.00'N 04°06.00'W			

## Area 2 Rig List

Latest Update: 28 November 2016

MOVEMENT	RIG	POSITION	MOVEMENT	RIG	POSITION
	EnSCO 71	55°28.80'N 05°06.60'E		COSL Rival	56°41.80'N 02°20.30'E
	Maersk Resilient	55°34.70'N 04°45.60'E		EnSCO 100	56°48.40'N 00°42.30'E
	Noble Sam Turner	55°38.40'N 04°53.10'E		Rowan Gorilla 5	56°57.55'N 01°48.33'E
	Seafox 5	55°46.10'N 04°38.90'E		GSF Galaxy 1	57°00.79'N 01°50.37'E
	EnSCO 121	55°52.90'N 04°14.00'E		Prospector 5	57°00.80'N 01°50.50'E
<b>New</b>	Maersk Guardian	56°14.60'N 04°16.90'E		Noble Hans Deul	57°01.90'N 01°57.30'E
	Maersk Resolve	56°14.80'N 03°57.60'E		Noble Regina Allen	57°27.00'N 01°23.20'E
	Maersk Innovator	56°22.60'N 03°15.50'E	<b>New</b>	Ocean Patriot	57°44.90'N 01°47.00'E
	Rowan Gorilla 6	56°31.20'N 03°13.30'E			

## Area 3 Rig List

Latest Update: 28 November 2016

MOVEMENT	RIG	POSITION	MOVEMENT	RIG	POSITION
	Seafox 4	53°03.20'N 02°11.30'E		EnSCO 122	53°58.00'N 04°27.60'E
	590021	53°14.00'N 03°14.50'E	<b>New</b>	Rowan Gorilla VII	54°03.30'N 01°02.10'E
	EnSCO 92	53°14.90'N 02°17.80'E		Seafox 2	54°34.10'N 02°18.10'E
	Atlantic Amsterdam	53°15.30'N 00°52.00'E		EnSCO 80	54°36.00'N 02°11.80'E
	GMS Endurance 6101	53°32.00'N 02°15.30'E		Seafox 7	54°36.00'N 02°11.80'E
	Paragon HZ-1	53°42.60'N 04°49.10'E	<b>New</b>	EnSCO 101	54°51.20'N 04°41.80'E
	Seajacks Kraken	53°50.00'N 00°26.50'E			

## Area 5 Rig List

Latest Update: 28 November 2016

MOVEMENT	RIG	POSITION	MOVEMENT	RIG	POSITION
<b>New</b>	Irish Sea Pioneer	53°32.20'N 03°34.80'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: 01 December 2016

**Transocean Spitsbergen – At well 205-26b-12**

Anchor No.	Anchor Position	Laydown Pennant s		Anchor Position	Laydown Pennant s
Rig	60°08.353'N 003°55.452'W				
1	60°08.390'N 003°57.278'W	60°08.393'N 003°57.537'W	5	60°08.322'N 003°53.704'W	60°08.321'N 003°53.444'W
2	60°08.953'N 003°56.707'W	60°09.043'N 003°56.893'W	6	60°07.728'N 003°54.243'W	60°07.635'N 003°54.062'W
3	60°09.226'N 003°55.381'W	60°09.355'N 003°55.378'W	7	60°07.514'N 003°55.594'W	60°07.385'N 003°55.609'W
4	60°08.981'N 003°54.124'W	60°09.071'N 003°53.937'W	8	60°07.722'N 003°56.765'W	60°07.632'N 003°56.951'W

**Deepsea Aberdeen – As-Laid At Schiehallion West Drill Centre**

Anchor No.	Position	Anchor No.	Position	Anchor No.	Position
Rig	60°19.356'N 004°09.156'W	3	60°21.096'N 004°04.992'W	6	60°17.742'N 004°04.620'W
1	60°20.376'N 004°09.192'W	4	60°20.424'N 004°03.684'W	7	60°18.378'N 004°07.116'W
2	60°21.480'N 004°06.972'W	5	60°19.314'N 004°01.152'W	8	60°19.920'N 004°06.072'W

**Ocean Guardian – Anchors as Laid at Western Isles South Drill Centre**

Anchor No.	Position	Anchor No.	Position	Anchor No.	Position
Rig	61°11.770'N 00°43.640'E	3	61°12.410'N 00°43.130'E	6	61°11.450'N 00°44.180'E
1	61°11.570'N 00°42.240'E	4	61°12.430'N 00°44.050'E	7	61°10.770'N 00°43.180'E
2	61°12.000'N 00°42.320'E	5	61°12.020'N 00°45.050'E	8	61°10.880'N 00°43.210'E

**PBLJ – At the Magnus D5 Well – Decommissioning Operations**

Anchor No.	Position	Anchor No.	Position	Anchor No.	Position
Rig	61°35.190'N 001°18.492'E	3	61°35.580'N 001°20.106'E	6	61°34.260'N 001°17.910'E
1	61°36.054'N 001°17.574'E	4	61°34.938'N 001°20.250'E	7	61°34.656'N 001°16.296'E
2	61°36.258'N 001°19.176'E	5	61°34.182'N 001°19.560'E	8	61°35.532'N 001°16.170'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

**Captain FPSO**

Anchor No.	Position	Anchor No.	Position	Anchor No.	Position
Rig	58°18.296'N 01°44.658'W	3	58°18.529'N 01°42.623'W	6	58°17.542'N 01°41.653'W
1	58°18.148'N 01°43.413'W	4	58°18.430'N 01°41.829'W	7	58°17.389'N 01°42.497'W
2	58°18.391'N 01°43.139'W	5	58°17.919'N 01°41.275'W	8	58°17.630'N 01°43.494'W

**Anchors still on seabed At Schiehallion North WestDrill Centre**

Anchor No.	Anchor Position	Surface Buoys		Anchor Position	Surface Buoys
1	60°22.434'N 004°09.270'W	60°22.656'N 004°07.734'W	5	60°23.358'N 04°02.580'E	60°23.244'N 004°03.186'W
2	60°23.670'N 004°08.976'W	60°23.286'N 004°07.548'W	6	60°21.906'N 04°02.946'E	60°22.068'N 004°03.450'W
3	60°24.462'N 004°06.960'W	60°23.700'N 004°06.498'W	7	60°21.288'N 04°05.664'E	60°22.032'N 004°05.742'W
4	60°24.324'N 004°04.464'W	60°23.634'N 004°05.220'W	8	60°21.456'N 04°07.614'E	

**Anchors still on seabed At Schiehallion North WestDrill Centre**

Anchor No.	Position	Anchor No.	Position
5	60°23.358'N 04°02.580'E	7	60°21.288'N 04°05.664'E
6	60°21.906'N 04°02.946'E	8	60°21.456'N 04°07.614'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

## Ocean Valiant – Pre-Laid At Bagpuss Well

Anchor No.	Chain Pennant	Chain End	Anchor
1	58°12.450'N 01°10.240'W	58°12.420'N 01°10.380'W	58°12.180'N 01°11.590'W
2	58°12.510'N 01°10.220'W	58°12.540'N 01°10.360'W	58°12.800'N 01°11.540'W
3	58°12.600'N 01°10.110'W	58°12.670'N 01°10.170'W	58°13.280'N 01°10.650'W
4	58°12.580'N 01°09.980'W	58°12.660'N 01°09.920'W	58°13.280'N 01°09.420'W
5	58°12.510'N 01°09.880'W	58°12.540'N 01°09.730'W	58°12.800'N 01°08.530'W
6	58°12.320'N 01°09.270'W	58°12.370'N 01°09.400'W	58°12.030'N 01°08.650'W
7	58°12.410'N 01°10.000'W	58°12.330'N 01°09.940'W	58°11.680'N 01°09.440'W
8	58°12.430'N 01°10.070'W	58°12.360'N 01°10.110'W	58°11.710'N 01°10.520'W

## Deepsea Atlantic – Pre-laid Anchors at Johan Sverdrup



Anchor No.	Position	Anchor No.	Position	Anchor No.	Position
Rig	58°50.088'N 002°33.021'E	3	58°51.440'N 002°33.992'E	6	58°48.948'N 002°33.878'E
1	58°50.510'N 002°30.809'E	4	58°50.602'N 002°35.620'E	7	58°49.001'N 002°31.942'E
2	58°51.557'N 002°31.514'E	5	58°49.666'N 002°35.239'E	8	58°49.496'N 002°30.036'E

## Transocean Leader – At Kraken DC1 9/02b-A1



Anchor No.	Anchor Position	Laydown Pennant s	Anchor Position	Laydown Pennant s
Rig	59°53.510'N 01°12.230'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

## Paragon MSS1 – Telford H2 Well



Anchor No.	Anchor Position	Laydown Pennant s	Anchor Position	Laydown Pennant s
Well	58°12.320'N 00°16.720'E			
1	58°12.850'N 00°16.160'E	58°12.930'N 00°16.050'E	7	58°11.760'N 00°17.300'E
2	58°12.940'N 00°16.720'E	58°12.950'N 00°16.580'E	8	58°11.690'N 00°16.720'E
3	58°12.840'N 00°17.270'E	58°12.900'N 00°17.130'E	9	58°11.770'N 00°16.150'E
4	58°12.610'N 00°17.720'E	58°12.680'N 00°17.660'E	10	58°12.020'N 00°15.690'E
5	58°12.320'N 00°17.860'E	58°12.320'N 00°18.000'E	11	58°12.320'N 00°15.500'E
6	58°12.020'N 00°17.760'E	58°11.990'N 00°17.880'E	12	58°12.620'N 00°15.670'E

## Borgsten Dolphin – Dunbar Platform 3/14a



Borgsten Dolphin is currently in transit to offshore position in Cromarty Firth Port anchorage #4

Anchor No.	Position	Anchor No.	Position	Anchor No.	Position
Rig	60°37.660'N 01°39.290'E	5	60°37.820'N 01°37.750'E	10	60°37.390'N 01°40.390'E
1	60°36.930'N 01°38.730'E	6	60°37.930'N 01°37.820'E	11	60°37.290'N 01°40.320'E
2	60°37.000'N 01°38.510'E	7	60°38.350'N 01°39.510'E	12	60°37.190'N 01°40.180'E
3	60°37.060'N 01°38.300'E	8	60°38.300'N 01°39.750'E		
4	60°37.700'N 01°37.700'E	9	60°38.250'N 01°39.980'E		



**Borgsten Dolphin – At Invergordon anchorage #4**

Offhire from TEPUK but final position published.

Anchor No.	Position	Anchor No.	Position	Anchor No.	Position
Rig	57°41.060'N 004°10.330'E	2	57°40.880'N 004°09.910'E	5	57°40.850'N 004°10.680'E
1	57°41.000'N 004°09.830'E	4	57°40.810'N 004°10.560'E	6	57°40.890'N 004°10.750'E

**West Phoenix – At Invergordon Anchorage**

West Phoenix at Offshore Invergordon Anchorage, Moray Firth with anchors deployed. Offhire from TEPUK, but TEPUK want to publish final position. The DP3 semi-submersible Rig West Phoenix is currently at an offshore Invergordon anchorage, Moray Firth

Anchor No.	Position	Anchor No.	Position	Anchor No.	Position
Rig	57°42.560'N 03°52.550'W	3	57°43.710'N 03°53.420'W	6	57°42.190'N 03°50.840'W
1	57°42.140'N 03°54.500'W	4	57°43.720'N 03°51.690'W	7	57°41.650'N 03°51.870'W
2	57°43.150'N 03°54.140'W	5	57°43.000'N 03°50.520'W	8	57°41.640'N 03°53.250'W

**Stena Spey – As-Laid At Alma**

Anchor No.	Position	Anchor No.	Position	Anchor No.	Position
Rig	56°11.890'N 002°45.750'E	3	56°12.260'N 002°46.930'E	6	56°11.060'N 002°44.930'E
1	56°11.530'N 002°45.330'E	4	56°11.680'N 002°46.990'E	7	56°11.640'N 002°43.820'E
2	56°12.660'N 002°46.250'E	5	56°11.170'N 002°46.270'E	8	56°12.260'N 002°43.840'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

**COSL Rival – Proposed Mooring at Judy30/7a**

COSL Rival located adjacent to the East face of the Judy Platform from 19th April for approx 6 months. Moorings are fitted with polyester inserts and subsea buoyancy and represent a significant snagging hazard to fishing vessel activity in the vicinity. Moorings have a circa 2km radius about the location



Anchor No.	Position	Anchor No.	Position	Anchor No.	Position
Alongside	56°41.791'N 002°20.319'E	4	56°42.870'N 002°19.365'E	9	56°42.406'N 002°21.890'E
Standoff	56°41.807'N 002°20.355'E	5	56°42.897'N 002°19.526'E	10	56°41.361'N 002°21.830'E
1	56°40.927'N 002°19.690'E	6	56°42.945'N 002°20.077'E	11	56°41.193'N 002°21.599'E
2	56°41.102'N 002°19.457'E	7	56°42.757'N 002°21.099'E	12	56°41.061'N 002°21.267'E
3	56°41.250'N 002°19.161'E	8	56°42.583'N 002°21.519'E		

**Ocean Patriot – As Laid at Pierce A12 Well**

Anchor No.	Position	Anchor No.	Position	Anchor No.	Position
Rig	57°10.081'N 002°15.560'E	5	57°09.323'N 002°16.412'E	# 7 Pennant End	57°09.638'N 002°14.153'E
1	57°10.622'N 002°14.944'E	# 5 Pennant End	57°09.263'N 002°16.466'E	8	57°10.298'N 002°14.428'E
2	57°10.691'N 002°15.793'E	6	57°09.382'N 002°15.260'E	# 8 ROV Survey	57°10.362'N 002°14.457'E
3	57°10.369'N 002°16.396'E	# 6 Pennant End	57°09.316'N 002°15.228'E		
4	57°09.971'N 002°16.677'E	7	57°09.671'N 002°14.261'E		

## Area 1 Survey List

Latest Update: 01 December 2016

Company & Vessels	Towed Cable Length & Depth	Area Covered 1 (inc Quod Blocks)	Area Covered 2 (inc Quod Blocks)	Duration
Gardline Geosurvey TBC		60°13.448'N 003°55.732'E 60°13.498'N 003°48.152'E 60°08.869'N 003°55.603'E 60°08.919'N 003°48.040'E 59°26.264'N 001°35.804'E 59°24.648'N 001°35.871'E 59°24.613'N 001°32.701'E	205	21/11/2016 - 31/01/2017 For 4 Days
Baker Hughes Wireline Ocean Valiant V7EB7		59°20.232'N 001°36.301'E	9	20/10/2016 - 28/02/2017 For 1 Day
Fugro Survey Ltd Fugro Searcher 3EUY6 Fugro Galaxy C6YY4		58°17.482'N 000°49.120'E 58°22.458'N 000°52.901'E	15	19/10/2016 - 20/12/2016 For 5 Days
Fugro Searcher Fugro Searcher 3 EUY6		58°19.195'N 000°51.700'E 58°16.503'N 000°51.862'E 58°16.416'N 000°46.753'E 58°19.108'N 000°46.584'E	15	14/10/2016 - 14/12/2016 For 7 Days
Gardline Geosurvey Limited Ocean Reliance J8B2707		59°35.849'N 001°39.467'E 59°35.932'N 001°47.967'E 59°31.623'N 001°48.121'E 59°31.540'N 001°39.638'E	9	23/09/2016 - 30/04/2017 For 4 Days
Subsea 7 Subsea Viking LJLL		60°18.834'N 000°01.121'E 60°25.606'N 000°02.114'E 60°32.377'N 000°03.113'E 60°39.015'N 000°05.757'E 60°44.935'N 000°12.423'E 60°44.512'N 000°12.870'E 60°38.554'N 000°06.356'E 60°31.896'N 000°03.918'E 60°25.124'N 000°02.916'E 60°18.353'N 000°01.921'E 60°12.063'N 000°00.135'E 60°12.010'N 000°00.992'E 60°49.780'N 000°21.151'E 60°49.552'N 000°21.885'E 61°13.053'N 000°44.978'E 61°13.035'N 000°41.108'E 61°12.999'N 000°44.979'E	61°12.981'N 000°41.109'E 61°11.261'N 000°43.144'E 61°12.978'N 000°44.808'E 61°11.238'N 000°43.245'E 61°12.955'N 000°44.909'E 61°15.461'N 000°49.508'E 61°15.065'N 000°49.867'E 61°14.667'N 000°48.204'E 61°14.151'N 000°46.810'E 61°13.498'N 000°45.803'E 61°13.236'N 000°45.537'E 61°13.192'N 000°49.455'E 61°12.761'N 000°49.434'E 61°12.818'N 000°44.316'E 61°13.702'N 000°45.016'E 61°14.461'N 000°46.190'E 61°15.038'N 000°47.748'E	17/05/2016 - 31/12/2016 For 7 Days
Fugro GeoConsulting Ltd MV Bucentaur - C6SU4 MV Gargano - VSMW5 Greatship Manisha - 9V7823		59°26.229'N 001°32.632'E 59°26.264'N 001°35.804'E 59°24.648'N 001°35.871'E 59°24.613'N 001°32.701'E	9	01/05/2016 - 31/12/2016 For 3 Days
Fugro GeoConsulting Ltd MV Bucentaur - C6SU4 MV Gargano - VSMW5 Greatship Manisha - 9V7823		59°36.916'N 001°18.301'E 59°36.956'N 001°21.490'E 59°35.341'N 001°21.569'E 59°35.300'N 001°18.382'E	9	01/05/2016 - 31/12/2016 For 3 Days
Fugro GeoConsulting Ltd MV Bucentaur - C6SU4 MV Gargano - VSMW5 Greatship Manisha - 9V7823		59°27.678'N 001°35.536'E 59°27.711'N 001°38.711'E 59°26.095'N 001°38.776'E 59°26.062'N 001°35.603'E	9	01/05/2016 - 31/12/2016 For 3 Days
Fugro GeoConsulting Ltd MV Bucentaur - C6SU4 MV Gargano - VSMW5 Greatship Manisha - 9V7823		59°23.121'N 001°38.404'E 59°23.153'N 001°41.572'E 59°21.537'N 001°41.634'E 59°21.505'N 001°38.469'E	9	01/05/2016 - 31/12/2016 For 3 Days

## Area 2 Survey List

Latest Update: 01 December 2016

Company & Vessels	Towed Cable Length & Depth	Area Covered 1 (inc Quod Blocks)	Area Covered 2 (inc Quod Blocks)	Duration
MMT M/V Stril Explorer LAZT7		57°27.400'N 001°47.448'W 57°28.628'N 001°44.111'W 57°28.190'N 001°43.469'W 57°26.866'N 001°47.128'W 57°26.769'N 001°47.953'W		06/12/2016 - 16/12/2016 For 37 Days
Gardline Geosurvey Ltd Ocean Researcher - GDLS		56°22.568'N 002°13.320'E 56°24.723'N 002°13.276'E 56°24.747'N 002°17.164'E 56°22.592'N 002°17.204'E	30	15/11/2016 - 15/12/2016 For 2 Days
Gardline Geosurvey Ltd Kommandor - PBQW		56°26.072'N 002°42.548'E 56°32.809'N 002°33.954'E	30	05/09/2016 - 04/12/2016 For 7 Days

Company & Vessels	Towed Cable Length & Depth	Area Covered 1 (inc Quod Blocks)	Area Covered 2 (inc Quod Blocks)	Duration
Perenco UK Geo Ocean II		53°00.000'N 001°34.000'E 52°52.000'N 001°47.000'E		05/12/2016 - 12/12/2016 For 7 Days
Fugro Skandia Olympia C6XY8		53°19.440'N 002°14.204'E	49	30/11/2016 - 06/12/2016 For 1 Day
Fugro Survey B.V Fugro Pioneer C6BH3		54°14.543'N 002°30.897'E 54°14.546'N 002°31.818'E 54°15.625'N 002°31.805'E 54°15.621'N 002°30.884'E	44	18/11/2016 - 31/01/2017 For 3 Days
Fugro Survey B.V Fugro Pioneer C6BH3		54°14.543'N 002°30.897'E 54°14.546'N 002°31.818'E 54°15.625'N 002°31.805'E 54°15.621'N 002°30.884'E	44	18/11/2016 - 31/01/2017 For 3 Days
Gardline MV Ocean Vantage		1000m x 1000m from: 51°14.105'N 001°54.639'E	56	15/11/2016 - 22/11/2016 For 5-7 Days
Horizon Geosciences Ltd Horizon Geobay 3ETG2		54°02.404'N 000°26.379'E 54°04.037'N 000°29.045'E 54°04.037'N 000°29.029'E	42	17/10/2016 - 07/12/2016 For 4 Days
Fugro Geoconsulting Fugro Galaxy C6YY4		54°01.437'N 000°25.045'E 53°44.269'N 000°10.346'E	42; 47	08/10/2016 - 30/11/2016 For 9 Days
Poarcus DMCC Polarcus Asima C6XK6	6000m / 15m	54°04.904'N 001°03.830'E 54°04.838'N 001°47.764'E 53°44.071'N 001°47.648'E 53°43.703'N 000°53.830'E 53°53.904'N 000°53.680'E 53°53.753'N 000°15.779'E 53°59.903'N 000°11.829'E 54°02.803'N 000°14.929'E 54°06.937'N 000°15.528'E 54°14.754'N 000°15.378'E 54°14.921'N 001°03.746'E	42; 43; 47; 48	01/10/2016 - 31/07/2017 For 2 Days
Gardline MV Titan Discovery ZQZ15		50°55.231'N 000°59.672'E 51°00.370'N 001°04.900'E 51°03.741'N 001°11.851'E 52°07.530'N 002°02.471'E		01/10/2016 - 01/12/2016
Gardline MV Vigilant		52°03.050'N 001°40.000'E 52°05.213'N 001°34.796'E 52°19.983'N 001°41.082'E 52°19.946'N 002°02.212'E		
Gardline MV Vigilant		52°19.983'N 001°41.082'E 52°34.865'N 001°51.511'E 52°34.421'N 001°56.093'E 52°35.350'N 002°01.892'E 52°19.946'N 002°02.212'E		