

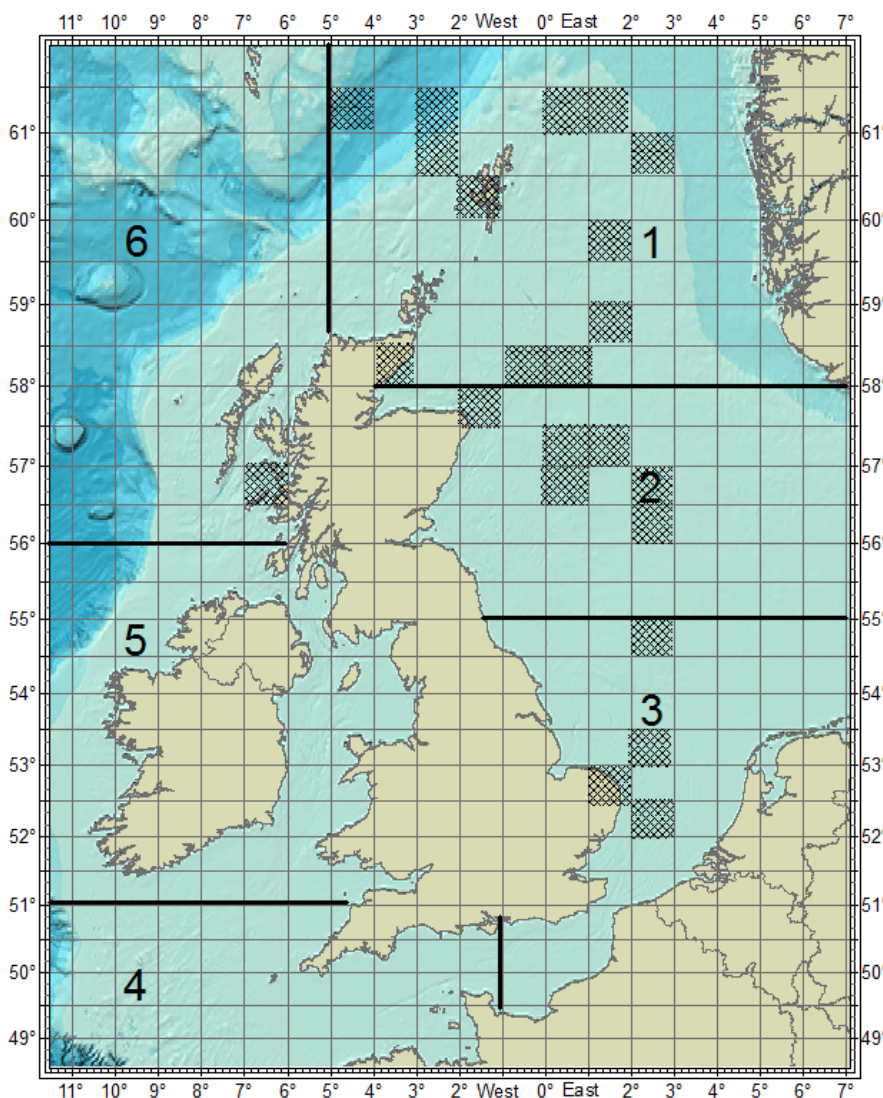
# Kingfisher Bulletin

## Offshore News

Oil & Gas

20 October 2016 | Issue 22

Shaded blocks indicate activity.



What's inside?

### **New Hazards** (p.3)

#### **Area 1** (p.4-6)

1. Notice to Fishermen
2. Seabed Activity

#### **Area 2** (p.7-9)

1. Notice to Fishermen
2. Seabed Activity

#### **Area 3** (p.10-11)

1. Notice to Fishermen
2. Seabed Activity

#### **Area 4** (N/A)

1. N/A

#### **Area 5** (N/A)

1. N/A

#### **Area 6** (p.12)

1. Deployment of Buoys

#### **Extra...** (p.13-20)

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

## 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	
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@nexencnoocld.com">Brian.Beattie@nexencnoocld.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	
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>		

**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: 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°



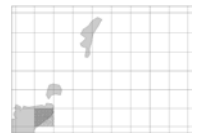
*For further information: Martyn Woods, Enquest Heather Ltd, Tel: 01224 564200 email: [npoim@enquest.com](mailto:npoim@enquest.com)*

## Seabed Activity

First Published: 20 October 2016 | Latest Update: 20 October 2016

## Beatrice – Pre-Decommissioning Survey

The Fugro operated Skandi Carla is expected to mobilise to the Beatrice field and associated wind turbines on the 19th of October This survey is expected to last 25 days depending on weather and will capture the following:



- SSS of all Beatrice pipelines and cables
- GVI of all Beatrice pipelines and cables
- Seabed sampling at various locations around the Beatrice Pipelines
- Seabed Sampling, drill cutting and debris survey around the Beatrice Alpha, Beatrice Bravo and Beatrice Charlie installations
- Debris survey around Wind Turbine Generator A and Wind Turbine Generator B

Location	Coordinates
Beatrice Alpha 500m Safety Zone	58°06.054'N 03°05.012'W
Beatrice Bravo 500m Safety Zone	58°08.053'N 03°01.010'W
Beatrice Charlie 500m Safety Zone	58°05.041'N 03°09.006'W
Wind Turbine Generator A 500m Safety Zone	58°06.003'N 03°04.050'W
Wind Turbine Generator B 500m Safety Zone	58°05.046'N 03°04.017'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: 19 October 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.

The rock dumper MV Stornes, Call Sign: PCXK, is currently in-field.

MV Courageous (LK470), Call Sign: MPWV9, is acting as guard vessel part way between Edradour & Edradour PLEM at the following location: 60° 55.39' N 02° 23.73'W

MV Shalimar II (PD303), Call Sign: MJLF9, 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)*



**Mariner** – Pipeline Works UKCS 9/11a

Please be advised that a number of works are taking place for the Mariner Field development.

The remaining activities in 2016 are as follows:

Activity	Vessel & Call Sign	Position	Date / Duration	Comments
Location of jack-up drilling unit alongside the PDQ Platform Jacket.	Noble Lloyd Noble D5EM7	59°35.308'N 01°03.363'E	From October 2016 to July 2017	Within existing safety zone of the PDQ jacket. The Noble Lloyd Noble will have an additional safety zone.



For further information: Ray Wells, Statoil, Tel:07771 918018, email: [rawe@statoil.com](mailto:rawe@statoil.com) or Remi Arne Larsen, Statoil, tel: 07889 807954, email: [remi@statoil.com](mailto:remi@statoil.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.

**October 2016**

- Tie-in of infield pipelines between FSO riser(s) and ML platform riser(s).
- Protection of exposed part on the seabed by use of protection structures and/or rock dumping.

These activities between the following locations: 60°30.34' N 02°00.79' E and 60°29.87' N 02°04.42' E.

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

From 15th July 2016 Total Norway will have a new 500m radius safety zone at the STL buoy centred on the following location: 60° 29.87'N 02° 04.42'E

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

**Telford Pigging 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

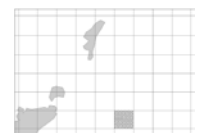
Primary Deposit Locations out with a Safety Zone

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.

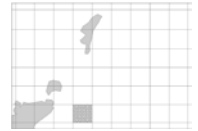
For further information: : Ian Murphy, Tel: +44 (0)1224 371733 email: [ian.murphy@nexencnooltd.com](mailto:ian.murphy@nexencnooltd.com)



## Athena Field – Decommissioning

Ithaca Energy UK Ltd is currently decommissioning the Athena Field in Block 14/18b of the UK Continental Shelf.

Ithaca Energy advises that the Athena STP Buoy, Risers and Mid-water arch will be removed in a campaign commencing on the 24th September, the duration of these works is likely to be around 18 days. The vessels conducting the works in the Athena field will be the Skandi Skansen, Skandi Iceman and two tow tugs (TBC).



Location	Coordinates
STP Buoy	58°24.374'N 000°34.382'W
Mid Water Arch	58°24.426'N 000°34.345'W
Riser Base	58°24.472'N 000°34.272'W

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

## Brae Alpha to West Brae and Sedgewick – Replacement Umbilical

the replacement umbilicals for West Brae and Sedgewick have been installed and trenched. Tie-in activities will now commence 22nd October 2016.

Activity	Vessel & Call Sign	Brae Alpha Platform	West Brae Manifold	Sedgewick Well V1	Date / Duration
Umbilical pull-in & lay	North Sea Giant 9HA1237	58°41.567'N 01°16.917'E	58°45.783'N 01°12.950'E	58°46.733'N 01°11.533'E	
Umbilical Trench	Deep Cygnus	58°41.567'N 01°16.917'E	58°45.783'N 01°12.950'E	58°46.733'N 01°11.533'E	
Umbilical tie-ins	Orelia V7GY7	58°41.567'N 01°16.917'E	58°45.783'N 01°12.950'E	58°46.733'N 01°11.533'E	22 Oct 2016 6 Days



For further information: John Colegrave, Marathon International Oil (GB) Ltd, Tel: +44 (0)1224 803416 email: [jcole@marathonoil.com](mailto:jcole@marathonoil.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@nexencnoocld.com](mailto:brian.beattie@nexencnoocld.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)

## 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.

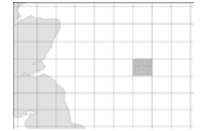
The FPU has now been towed from location and the associated moorings and anchors have been recovered. The Janice Drill Centre location is being cleared of all flowlines and umbilicals, mid water arches and several small structures. In addition the flexible flowline and umbilical between Janice and James 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)





## 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 000°42.783'E



## Seabed Activity

Offshore installation works in the Catcher Area Development re-commenced in April 2016. To date, the following have been successfully installed:

- 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.

- three (3) piled gravity base structures which will later be attached to mid-water arches (buoyancy units used to support risers positioned mid-water approximately 30m below sea surface and 80m from the future FPSO location, see below). A guard vessel will monitor the mid-water structures after installation.
- three (3) 3.5km pipeline bundles have now been installed on the seabed between each Drill Centre and the future FPSO location.
- 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.

Once the mooring lines are installed they will be connected to a new FPSO Submerged Turret Production (STP) buoy.

The following works have commenced and will be completed during the next two months:

- Riser and umbilical installation and mattress installation within the STP 500m safety exclusion zone.
- Subsea spool installation within the Catcher Drill Centre safety zone.
- Concrete mattress installation and rock dumping over spools and risers/umbilicals.

## Drilling

The ENSCO 100 HDJU will be towed from its current location at the Burgman template to Varadero template 1 mid Aug 2016 (currently scheduled for 16th August). Once the rig is located over Varadero template 1 it will remain there for a minimum period of 250 days.

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

## Deployment of Wave-Rider Buoys

A wave rider weather buoy was deployed within the Catcher Area Development and will remain in place until 31st December 2016. The revised Wave Rider Buoy Coordinates are:

Coordinates
56°45.234'N 00°44.007'E

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

## Notice to Fishermen

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

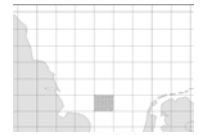
## Fishing Hazard – 6 tonne elastomer buoy



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 an 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 vessel's 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 Hewitt 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)

## Isle of Mull near Bloody Bay – Moorings

Marine research activities intended in / near Bloody Bay, Isle of Mull, and adjacent areas in the Sound of Mull from 5<sup>th</sup>/7<sup>th</sup> September to 20th October 2016. The work will be undertaken by the Scottish Association for Marine Science and involves deploying and recovering an array of moorings, including three 800-m long mooring lines and six solitary moorings. All equipment will be removed by the end of the research period.



Point	Position	Name
1	56°39.363'N 006°07.718'W	Ardmre Point
2	56°40.958'N 006°08.514'W	Sron Beag
3	56°40.763'N 006°01.821'W	Maclean's Nose
4	56°38.984'N 006°00.258'W	Auliston Point
5	56°38.326'N 006°03.988'W	Rubhn nan Gall Lighthouse

*For further information:* Dr Steven Benjamins, SAMS, Tel: +44(0)1631 559449 E-mail address: [Steven.Benjamins@sams.ac.uk](mailto:Steven.Benjamins@sams.ac.uk) <http://www.sams.ac.uk>

## Area 1 Rig List

Latest Update:17 October 2016

MOVEMENT	RIG	POSITION	MOVEMENT	RIG	POSITION
	Byford Dolphin	58°07.60'N 01°28.00'E		Flotel Victory	60°44.30'N 02°29.40'W
	Blackford Dolphin	58°18.10'N 01°42.40'E		COSL Promoter	60°46.20'N 03°36.10'E
	Maersk Integrator	58°34.30'N 01°41.80'E	New	Songa Equinox	60°49.80'N 03°34.20'E
	Deepsea Atlantic	58°50.00'N 02°32.90'E		Stena Don	60°50.70'N 03°37.60'E
	Rowan Viking	58°50.60'N 02°14.90'E		West Epsilon	60°51.20'N 02°38.50'E
	Wilphoenix	59°22.40'N 01°40.10'E		West Elara	61°02.30'N 02°20.30'E
	Transocean Leader	59°53.90'N 01°16.90'E	New	Ocean Guardian	61°11.70'N 00°43.70'E
	Transocean Spitsbergen	60°12.00'N 03°51.70'W		Borgland Dolphin	61°13.30'N 03°26.40'E
New	Deepsea Aberdeen	60°20.00'N 04°06.00'W		Transocean Arctic	61°25.00'N 04°04.00'E
	Maersk Intrepid	60°30.30'N 02°00.80'E		Paul B Loyd Jr	61°35.20'N 01°18.60'E
	Safe Scandinavia	60°41.90'N 02°55.90'E		Songa Delta	64°19.00'N 07°09.40'E

## Area 2 Rig List

Latest Update:17 October 2016

MOVEMENT	RIG	POSITION	MOVEMENT	RIG	POSITION
	EnSCO 71	55°28.80'N 05°06.60'E		Rowan Gorilla 6	56°31.20'N 03°13.30'E
	Maersk Resilient	55°34.70'N 04°45.60'E		COSL Rival	56°41.80'N 02°20.30'E
	Noble Sam Turner	55°38.40'N 04°53.10'E		FPF1	56°46.90'N 02°06.50'E
	Seafox 5	55°46.10'N 04°38.90'E		EnSCO 100	56°48.40'N 00°42.30'E
	EnSCO 121	55°52.90'N 04°14.00'E		Rowan Gorilla 5	56°57.55'N 01°48.33'E
	Paragon MSS1	55°57.90'N 02°18.20'E		GSF Galaxy 1	57°00.79'N 01°50.37'E
	Stena Spey	56°11.90'N 02°45.80'E		Prospector 5	57°00.80'N 01°50.50'E
	Maersk Resolve	56°14.80'N 03°57.60'E		Noble Hans Deul	57°01.90'N 01°57.30'E
	Maersk Innovator	56°22.60'N 03°15.50'E		Noble Regina Allen	57°27.00'N 01°23.20'E
	Maersk Giant	56°29.00'N 04°54.70'E		Ocean Patriot	57°44.10'N 01°50.50'E

## Area 3 Rig List

Latest Update:17 October 2016

MOVEMENT	RIG	POSITION	MOVEMENT	RIG	POSITION
	Paragon C461	52°35.00'N 04°10.60'E		Seajacks Leviathan	53°57.70'N 04°29.70'E
	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		Seafox 2	54°34.10'N 02°18.10'E
	Atlantic Amsterdam	53°15.30'N 00°52.00'E		EnSCO 102	54°34.20'N 02°17.60'E
New	EnSCO 92	53°23.90'N 02°14.00'E		EnSCO 80	54°36.00'N 02°11.80'E
New	GMS Endurance 6101	53°32.00'N 02°15.30'E		Seafox 7	54°36.00'N 02°11.80'E

## Area 5 Rig List

Latest Update:17 October 2016

MOVEMENT	RIG	POSITION	MOVEMENT	RIG	POSITION
	Irish Sea Pioneer	53°37.80'N 03°10.60'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: 03 October 2016

### 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 West Drill 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
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
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
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

### Deepsea Aberdeen – As-Laid At Schiehallion North Drill Centre

Anchor No.	Position	Anchor No.	Position	Anchor No.	Position
Rig	60°22.116'N 04°01.578'W	3	60°23.568'N 04°02.880'W	6	60°21.630'N 03°58.530'W
1	60°21.792'N 04°03.738'W	4	60°23.634'N 04°00.588'W	7	60°21.090'N 04°00.402'W
2	60°23.136'N 04°05.646'W	5	60°22.698'N 03°58.590'W	8	60°20.580'N 04°02.406'W

### Anchors still on seabed At Schiehallion North West Drill 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

## Transocean Spitsbergen – At well 205-21a-7

Anchor No.	Anchor Position	Laydown Pennant s		Anchor Position	Laydown Pennant s
Rig	60°11.959'N 03°51.841'W				
1	60°11.995'N 003°53.618'W	60°11.998'N 003°53.953'W	5	60°11.918'N 003°50.052'W	60°11.909'N 003°49.707'W
2	60°12.593'N 003°53.075'W	60°12.727'N 003°53.315'W	6	60°11.324'N 003°50.619'W	60°11.200'N 003°50.362'W
3	60°12.844'N 003°51.755'W	60°13.016'N 003°51.743'W	7	60°11.074'N 003°51.924'W	60°10.902'N 003°51.923'W
4	60°12.572'N 003°50.567'W	60°12.704'N 003°50.319'W	8	60°11.346'N 003°53.111'W	60°11.230'N 003°53.351'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

## Byford Dolphin – Anchors pre-installed at Cyrus Field

Anchor No.	Anchor Position	Piggyback		Anchor Position	Piggyback
Rig	58°07.600'N 001°28.000'E		7	58°06.868'N 001°29.138'E	58°06.782'N 001°29.279'E
1	58°08.152'N 001°27.460'E		8	58°06.595'N 001°28.676'E	58°06.493'N 001°28.747'E
					58°06.386'N 001°28.833'E
2	58°08.254'N 001°27.821'E		9	58°06.422'N 001°28.000'E	58°06.311'N 001°28.003'E
3	58°08.230'N 001°28.212'E	58°08.338'N 001°28.260'E	10	58°07.246'N 001°26.980'E	
4	58°08.029'N 001°30.028'E		11	58°07.439'N 001°26.820'E	58°07.410'N 001°26.610'E
5	58°07.629'N 001°29.982'E	58°07.631'N 001°30.195'E	12	58°07.646'N 001°26.847'E	
6	58°07.304'N 001°29.693'E	58°07.268'N 001°29.890'E			

## 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	59°52.680'N 01°12.870'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	59°52.660'N 01°11.540'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	59°53.170'N 01°10.520'E
4	59°53.210'N 01°13.700'E	59°53.170'N 01°13.880'E	8	59°53.820'N 01°10.660'E	59°53.850'N 01°10.510'E

## 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		7	58°11.760'N 00°17.300'E	58°11.700'N 00°17.380'E
1	58°12.850'N 00°16.160'E	58°12.930'N 00°16.050'E	8	58°11.690'N 00°16.720'E	58°11.610'N 00°16.720'E
2	58°12.940'N 00°16.720'E	58°12.950'N 00°16.580'E	9	58°11.770'N 00°16.150'E	58°11.700'N 00°16.090'E
3	58°12.840'N 00°17.270'E	58°12.900'N 00°17.130'E	10	58°12.020'N 00°15.690'E	58°11.980'N 00°15.570'E
4	58°12.610'N 00°17.720'E	58°12.680'N 00°17.660'E	11	58°12.320'N 00°15.500'E	58°12.320'N 00°15.370'E
5	58°12.320'N 00°17.860'E	58°12.320'N 00°18.000'E	12	58°12.620'N 00°15.670'E	58°12.660'N 00°15.550'E
6	58°12.020'N 00°17.760'E	58°11.990'N 00°17.880'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		

**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		

**Safe Caledonia Flotel – At ETAP**

Anchor No.	Position	Anchor No.	Position	Anchor No.	Position
Rig	57°17.576'N 001°39.588'E	4	57°17.170'N 001°37.220'E	8	57°17.884'N 001°41.775'E
1	57°16.250'N 001°39.942'E	5	57°18.740'N 001°38.764'E	9	57°16.292'N 001°40.303'E
2	57°16.236'N 001°39.646'E	6	57°18.806'N 001°39.416'E	10	57°17.412'N 001°37.130'E
3	57°17.012'N 001°37.388'E	7	57°18.179'N 001°41.507'E		



Company & Vessels	Towed Cable Length & Depth	Area Covered 1 (inc Quod Blocks)	Area Covered 2 (inc Quod Blocks)	Duration
Gardline MV Kommandor PBQW		57°57.594'N 000°53.660'E 58°17.350'N 000°12.349'E	21; 15	24/10/2016 - 29/10/2016 For 5 Days
Fugro Subsea Services Ltd Scandi Carla C6RX4		58°09.125'N 003°01.006'W 58°07.493'N 003°08.071'W 58°05.560'N 003°09.191'W 58°05.600'N 003°04.401'W 58°06.284'N 003°02.406'W	11	20/10/2016 - 12/11/2016 For 19 Days
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
Zennor Kommandor		57°57.594'N 000°53.660'E 58°17.350'N 000°12.349'E		17/10/2016 For 5 to 10 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
Fugro Survey Ocean Reliance		60°39.901'N 003°05.873'W 60°39.902'N 002°55.993'W 60°35.215'N 002°56.002'W 60°35.214'N 003°05.859'W	205; 206	18/09/2015 - 31/10/2016 For 1 Day
PGS Geophysical ASA Ramforn Titan C6AL9	1300m 3m	59°05.934'N 000°47.106'E 59°23.403'N 000°45.914'E 59°24.209'N 001°46.717'E 59°17.366'N 001°42.602'E 59°06.629'N 001°39.751'E	8 9	15/09/2016 - 30/11/2016 For 90 Days
Fugro Survey AS MV Fugro Galaxy C6YY4	1300m 3m	59°30.922'N 001°01.155'E 59°38.673'N 001°01.014'E 59°38.734'N 001°15.827'E 59°30.983'N 001°15.915'E	9	06/09/2016 - 31/10/2016 For 10 Days
PGS Geophysical ASA Nordic Explorer C6TU3 Thor Assister OZ2061		59°10.986'N 001°37.080'W 58°29.444'N 002°28.293'W 58°36.058'N 002°54.933'W 58°44.849'N 002°47.665'W 58°57.351'N 002°31.868'W 59°22.240'N 002°12.186'W 59°28.108'N 002°13.267'W 59°27.275'N 002°29.060'W 59°53.790'N 002°30.822'W 59°51.742'N 001°33.902'W 59°49.494'N 001°17.396'W 59°54.397'N 001°08.573'W 60°02.022'N 000°55.813'W 60°12.213'N 000°50.007'W	60°18.211'N 000°45.880'W 60°24.164'N 000°39.235'W 60°28.377'N 000°44.972'W 60°30.955'N 000°45.419'W 60°36.041'N 000°42.139'W 60°53.483'N 000°39.830'W 60°54.331'N 000°59.477'W 61°28.940'N 000°54.016'W 61°28.334'N 000°05.690'W 59°37.709'N 000°06.373'W 59°37.325'N 000°45.254'W 59°11.109'N 001°15.133'W 59°10.986'N 001°37.080'W	12/08/2015 - 30/11/2016 For 90 Days
Gardline Geosurvey Sea Explorer C6NG6	1200m 3m	60°19.722'N 003°32.747'W 60°15.941'N 003°25.016'W 60°12.104'N 003°32.620'W 60°15.878'N 003°40.350'W	205	01/08/2015 - 31/10/2016 For 7 Days
Fugro Survey Ltd Fugro Searcher 3EUY6		60°03.714'N 001°58.026'E 60°04.259'N 001°59.083'E 60°03.696'N 002°00.244'E 60°03.151'N 001°59.186'E	3; 4	01/06/2016 - 30/11/2016 For 1 Day
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
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°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		59°27.678'N 001°35.536'E 59°27.711'N 001°38.711'E	9	01/05/2016 - 31/12/2016

MV Gargano - VSMW5 Greatship Manisha - 9V7823		59°26.095'N 001°38.776'E 59°26.062'N 001°35.603'E		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
CCG Services S.A Oceanic Champion LAJQ6 Bourbon Fulmar 5BXP3	1000m / 50m	61°31.423'N 001°11.406'E 61°31.762'N 001°41.006'E 61°21.370'N 001°47.295'E 60°59.970'N 001°51.498'E 60°29.969'N 001°57.391'E 59°53.767'N 002°04.500'E 59°53.551'N 002°04.370'E 59°53.073'N 001°16.799'E 61°31.423'N 001°11.406'E	211; 3; 9	25/02/2016 - 30/11/2016 For 90 Days

## Area 2 Survey List

Latest Update: 20 October 2016

Company & Vessels	Towed Cable Length & Depth	Area Covered 1 (inc Quod Blocks)	Area Covered 2 (inc Quod Blocks)	Duration
Statoil Edda Flora LAJW3		57°34.917'N 001°43.650'E		16/10/2016 - 26/10/2016 For 3.5 Days
PGS Sanco Swift - ZDKY8		57°31.112'N 001°47.472'E 57°49.013'N 002°48.414'E 57°46.478'N 003°05.857'E 57°40.089'N 003°12.797'E 57°31.972'N 003°11.743'E 57°09.278'N 001°51.197'E 57°16.000'N 001°42.000'E 57°25.787'N 001°41.811'E	23	30/09/2016 - 31/10/2016
Fugro Survey AS Fugro Galaxy C6YY4	1300m 3m	57°55.791'N 000°15.364'E 58°02.165'N 000°04.441'E 57°56.344'N 000°07.333'E 57°49.988'N 000°03.401'E	20; 14; 21	November For 7-10 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
PGS Exploration (UK) Limited Ramform Vanguard C6TU8	8100m 25m	56°57.651'N 002°25.826'E 56°56.431'N 002°21.764'E 56°55.478'N 002°16.359'E 56°55.690'N 002°10.799'E 56°57.300'N 002°05.095'E 56°59.400'N 002°01.823'E 57°09.978'N 001°50.294'E 57°13.540'N 001°48.234'E 57°16.841'N 001°49.068'E 57°19.417'N 001°51.855'E 57°21.156'N 001°55.804'E 57°25.988'N 002°11.800'E	22; 23; 30	01/08/2016 - 30/11/2016 For 50 Days
Dana MV Kommandor		57°14.326'N 000°44.876'E 57°10.890'N 000°49.512'E 57°08.534'N 000°43.589'E 57°11.966'N 000°38.949'E		10/07/2016 - 30/11/2016 For 7 Days
Gardline GeoSurvey Ltd M/V Kommandor PBQW		57°12.819'N 000°44.448'E 57°11.124'N 000°46.737'E 57°10.040'N 000°44.016'E 57°11.735'N 000°41.725'E	21	03/07/2016 - 30/11/2016 For 7 Days
PGS Geophysical ASA Ramform Sterling C6YE5		58°39.631'N 001°32.585'E 58°25.763'N 001°28.903'E 57°54.263'N 001°57.806'E 57°46.009'N 002°01.891'E 57°44.696'N 001°53.754'E 57°44.535'N 000°58.760'E 57°45.508'N 000°51.366'E 57°48.531'N 000°45.497'E 57°52.504'N 000°43.405'E	58°12.895'N 000°42.791'E 58°16.745'N 000°44.510'E 58°19.893'N 000°50.062'E 58°21.087'N 000°57.572'E 58°21.325'N 001°11.187'E 58°31.299'N 001°10.746'E 58°35.006'N 001°12.286'E 58°38.515'N 001°18.603'E 58°39.552'N 001°25.831'E	15/06/2016 - 31/10/2016 For 90 Days
Western Geco Ltd M/V WG Magellan 5BPK2 M/V Geco Topaz 3FYH3 M/V WG Vespucci 5BXF2	3600m 23m	57°47.049'N 000°26.075'E 57°38.408'N 000°22.455'E 57°37.438'N 000°30.614'E 57°31.793'N 000°28.185'E 57°31.693'N 001°00.010'E 57°31.935'N 001°00.121'E	57°41.759'N 001°16.435'E 57°52.590'N 001°21.269'E 57°58.097'N 001°08.217'E 57°58.010'N 000°59.489'E 57°57.568'N 000°56.542'E 58°00.786'N 000°32.046'E	01/06/2016 - 30/11/2016 For 55 Days
CGG Services S.A Oceanic Champion LAJQ6 Bourbon Fulmar 5BXP3 Storm West LCHX3	7950m 50m	56°49.570'N 002°29.826'E 56°35.660'N 002°36.710'E 56°26.533'N 002°48.141'E 56°27.122'N 000°48.228'E 56°43.794'N 000°48.144'E 56°43.830'N 001°18.159'E 56°47.132'N 001°18.168'E 56°47.061'N 001°44.411'E 56°49.903'N 001°44.452'E	29; 30	01/05/2016 - 30/11/2016 For 37 Days

Company & Vessels	Towed Cable Length & Depth	Area Covered 1 (inc Quod Blocks)	Area Covered 2 (inc Quod Blocks)	Duration
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 1 Day
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
Fugro Geoconsulting Ltd Jif Challenger FIYA		54°01.437'N 000°25.045'E 53°44.269'N 000°10.346'E	42; 47	22/09/2016 - 31/10/2016 For 4 Days
Gardline Geosurvey MV Kommandor PBQW		53°41.678'N 001°54.033'E 53°43.685'N 002°01.901'E 53°29.708'N 002°11.485'E 53°22.200'N 002°00.232'E	48; 49	20/09/2016 - 20/10/2016 For 10 Days
Fugro Subsea Skandi Olympia C6XY8		54°18.030'N 001°40.578'E 54°33.119'N 002°17.388'E 54°35.996'N 002°11.690'E	43; 44	20/09/2016 - 31/10/2016 For 15 Days
Gardline Geosurvey MV Kommandor PBQW		53°49.619'N 002°48.522'E 53°49.623'N 002°51.712'E 53°47.466'N 002°51.719'E 53°47.462'N 002°48.532'E	49	20/09/2016 - 20/10/2016 For 2 Days
Gardline Geosurvey MV Kommandor PBQW		53°40.689'N 000°53.194'E 53°40.737'N 000°55.918'E 53°38.851'N 000°56.010'E 53°38.803'N 000°53.289'E	47	20/09/2016 - 20/10/2016 For 2 Days
Schlumberger TBA		54°17.255'N 002°28.117'E	44	01/06/2016 - 15/10/2016 For 1 Day
Gardline MV Vigilant		52°07.530'N 002°02.471'E 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		

Company & Vessels	Towed Cable Length & Depth	Area Covered 1 (inc Quod Blocks)	Area Covered 2 (inc Quod Blocks)	Duration
WesternGeco Limited MV WG Magellan 5BPK2		50°46.521'N 005°09.613'W 50°54.734'N 005°21.377'W 51°23.465'N 005°32.878'W 51°23.964'N 005°52.113'W 51°44.429'N 006°19.058'W 52°25.496'N 005°45.560'W 53°22.694'N 005°30.252'W 54°15.687'N 003°58.268'W 54°11.478'N 003°27.524'W 54°02.513'N 003°18.029'W 53°43.822'N 003°11.240'W 53°48.175'N 003°43.918'W 53°27.473'N 004°37.826'W 53°17.694'N 004°52.738'W 53°05.874'N 004°35.066'W	53°00.567'N 004°34.771'W 52°50.729'N 004°53.595'W 52°42.207'N 004°53.279'W 52°42.663'N 004°41.443'W 52°30.980'N 004°09.668'W 52°11.988'N 004°43.412'W 52°01.541'N 005°17.783'W 51°49.709'N 005°30.255'W 51°24.218'N 005°09.268'W 51°28.065'N 004°40.844'W 51°29.228'N 004°28.022'W 51°06.450'N 004°27.483'W 50°49.849'N 004°49.619'W 50°46.521'N 005°09.613'W 94; 95; 102; 103; 104; 107; 108; 110; 112; 113	01/09/2016 - 30/11/2016 For 35 Days
WesternGeco Limited MV WG Magellan 5BPK2	8500m 30m	47°57.866'N 009°30.380'W 48°24.314'N 009°51.115'W 48°55.542'N 009°23.870'W 49°20.235'N 008°30.930'W 49°22.076'N 008°04.960'W 50°05.040'N 008°26.728'W 50°33.619'N 008°03.452'W 51°03.311'N 007°06.777'W 51°53.850'N 006°15.171'W 51°42.988'N 005°59.932'W 51°38.791'N 006°00.167'W 51°35.361'N 005°55.610'W	51°29.328'N 005°18.827'W 51°27.180'N 005°15.995'W 51°25.788'N 005°11.914'W 51°19.261'N 005°12.078'W 51°15.371'N 005°18.802'W 51°13.136'N 005°17.915'W 51°06.857'N 005°16.721'W 50°59.059'N 005°15.216'W 50°55.064'N 005°10.256'W 50°51.228'N 005°13.876'W 50°41.830'N 005°19.934'W	15/07/2016 - 30/11/2016 For 90 Days

51°33.799'N 005°53.578'W  
 51°32.619'N 005°50.400'W  
 51°31.784'N 005°47.778'W  
 51°30.853'N 005°43.248'W  
 51°30.823'N 005°36.463'W  
 51°30.698'N 005°33.626'W

50°25.554'N 005°40.999'W  
 50°04.074'N 006°54.515'W  
 49°28.435'N 006°38.680'W  
 49°45.122'N 005°03.265'W  
 49°50.366'N 004°33.620'W  
 49°22.970'N 004°09.977'W  
 72; 73; 82; 83; 85; 86; 87;  
 93; 94

**Area 5** | **Survey List**

**Latest Update: 20 October 2016**

Company & Vessels	Towed Cable Length & Depth	Area Covered 1 (inc Quod Blocks)	Area Covered 2 (inc Quod Blocks)	Duration
Bibby Hydromap Ltd Bibby Tethra 2EGF8		53°41.540'N 003°09.200'W 53°19.300'N 003°40.340'W	205	14/10/2016 - 28/10/2016  For 14 Days