

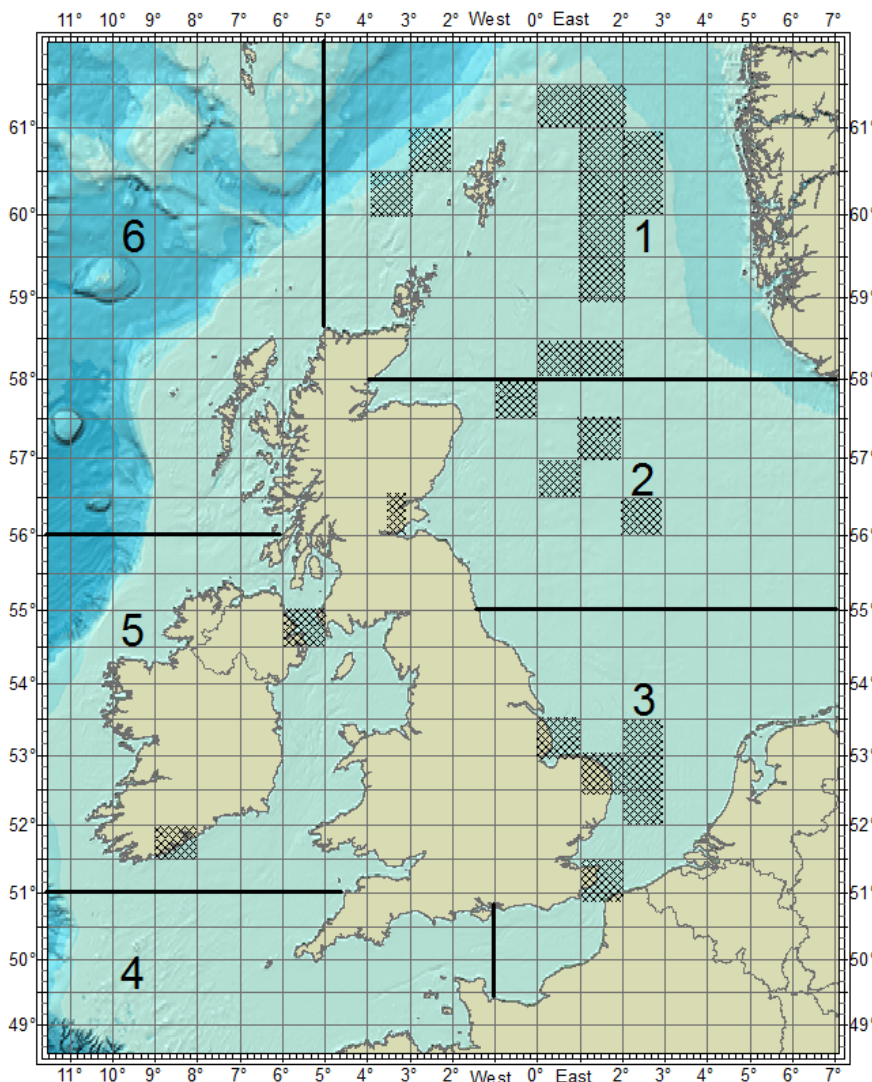
# Kingfisher Bulletin

## Offshore News

Oil & Gas

21 September 2017 | Issue 19

Shaded blocks indicate activity.



What's inside?

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

#### **Area 1** (p.4-8)

1. Notice to Fishermen
2. Seabed Activity
3. Deployment of Buoys
4. Survey

#### **Area 2** (p.9-11)

1. Notice to Fishermen
2. Seabed Activity

#### **Area 3** (p.12)

1. Seabed Activity

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

#### **Area 5** (p.13)

1. Seabed Activity

#### **Area 6** (N.A)

#### **Extra...** (p.14-20)

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

## Support

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



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

## Information




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


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



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## New Hazards

Area 1		Hazard List			
Hazard Type	Position	Issue Date	Contact Details	Map	
Pipeline Span Length 21m Height 2m	60°54.521'N 001°37.699'E	24 Aug 2017	<a href="mailto:jonathan.hoare@cnrl.com">jonathan.hoare@cnrl.com</a>		
Obstruction from Well 9/27-4	59°00.306'N 001°17.721'E	11 July 2017	<a href="mailto:rawe@staoil.com">rawe@staoil.com</a>		
AXS Bundle Span – Alba Field 10m span length and 0.8m span depth	58°02.592'N 001°05.106'E to 58°02.607'N 001°05.088'E	29 June 2017	<a href="mailto:pat.dasgupta@chevron.com">pat.dasgupta@chevron.com</a>		

Area 2		Hazard List			
Hazard Type	Position	Issue Date	Contact Details	Map	
A Tidal Gauge System, 1m x 1m base plate, 40kg	57°04.674'N 002°04.542'E	10 Aug 2017	<a href="mailto:nick.strachan@uk.bp.com">nick.strachan@uk.bp.com</a>		

Area 3		Hazard List			
Hazard Type	Position	Issue Date	Contact Details	Map	
Pipeline Span: Juliet Export Line 15m x 1.3	53°33.726'N 00°59.092'E	07 Sept 2017	<a href="mailto:david.hawkins@gdfsuezep.co.uk">david.hawkins@gdfsuezep.co.uk</a>		
Wreck of MV Ella	52°25.230'N 001°49.670'E	11 July 2017	<a href="mailto:lee.cornwell@innogy.com">lee.cornwell@innogy.com</a>		

Area 5		Hazard List			
Hazard Type	Position	Issue Date	Contact Details	Map	
2 x pipeline spans 2 metres high and 16 metres and 12 metres long	54°59.484'N 005°13.235'W	25 July 2017	<a href="mailto:kingfisher@seafish.co.uk">kingfisher@seafish.co.uk</a>		
Potential Seabed Obstruction	51°42.600'N 008°11.214'W 51°41.622'N 008°10.739'W 51°41.327'N 008°11.466'W 51°41.778'N 008°11.941'W	30 June 2017	<a href="mailto:navwarnings@btconnect.com">navwarnings@btconnect.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: 07 September 2017 | Latest Update: 07 September 2017

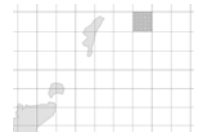
## Fishing Hazard – UXO (unexploded ordnance)



Please be advised of the position of an unexploded ordnance.

**Position: 60°51.340'N 001°28.257'E**

Location is inside installation 500m safety zone.



*For further information: Jonathan Hoare, CNR International (UK) Ltd Tel: +44(0)1224 303757 email: [jonathan.hoare@cnrl.com](mailto:jonathan.hoare@cnrl.com)*

## Notice to Fishermen

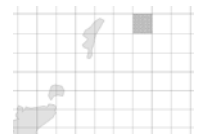
First Published: 24 August 2017 | Latest Update: 24 August 2017

## Fishing Hazard – Pipeline Span



Please be advised that an a Pipeline Span Length 21m Height 2m (maximum)

**Position: 60°54.521'N 001°37.699'E**



*For further information: Jonathan Hoare, CNR International (UK) Ltd Tel: +44(0)1224 303757 email: [jonathan.hoare@cnrl.com](mailto:jonathan.hoare@cnrl.com)*

## Notice to Fishermen

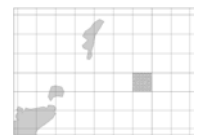
First Published: 29 June 2017 | Latest Update: 29 June 2017

## Fishing Hazard – Obstruction from Well 9/27-4



Please be advised that an obstruction from Well 9/27a-4 which has been plugged and Abandoned. The object was observed to be approximately 1.1metres high.

**Position: 59°00.306'N 001°17.721'E**



*For further information: Ray Wells, Statoil UK Limited, Tel: +44 7771 918 018 email: [rawe@statoil.com](mailto:rawe@statoil.com)*

## Notice to Fishermen

First Published: 29 June 2017 | Latest Update: 29 June 2017

## Fishing Hazard – Alba Field – AXS Bundle Span



Please be advised that the AXS Bundle Span at Chevron's Alba Field as reported during the pipeline inspection campaign. The 10m span length and 0.8m span depth shown below could present a Hazard to Fishing.

**Position: 58°02.592'N 001°05.106'E to 58°02.607'N 001°05.088'E**



*For further information: Pat Dasgupta, Chevron North Sea Ltd, +44(0)1224 345425, [pat.dasgupta@chevron.com](mailto:pat.dasgupta@chevron.com)*

## Abandoned Wellhead – Plugged and Abandoned

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

Structure	Operator	Position
3/30-7	Total	60°03.710'N 001°59.140'E



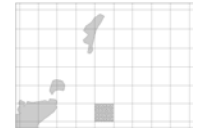
For further information: David Colliard, Total E&P UK Limited, Tel: 01224 298172 email: [david.colliard@total.com](mailto:david.colliard@total.com)

## Seabed Activity

First Published: 19 September 2017 | Latest Update: 19 September 2017

## Claymore Field Anode Installation – Subsea Construction

The Subsea 7 operated DSV Seven Kestrel has mobilised for the Claymore field to complete this workscope in early September. The work is expected to last 21 days and will involve the following activity over the vessel's campaign :



- Installation of 3no. anode sleds at the MOL Wye
- Installation of 7no. anode sleds at the CASWI Template
- Installation of 7no. anode sleds at the CFE Template

### Positions:

MOL Wye	58°28.704'N 000°17.905'W
CASWI Template	58°25.922'N 000°15.536'W
CFE Template	58°28.474'N 000°15.328'W

For further information: Brian Smith, Repsol Sinopec, Tel: +44(1224) 352937 email: [brian.smith@repsolsinopecuk.com](mailto:brian.smith@repsolsinopecuk.com)

## Seabed Activity

First Published: 07 September 2017 | Latest Update: 19 September 2017

## Northern North Sea Diving Campaign – UKCS 3/14a, 3/15a & 2/15d

From 11 September until 30 September, Seven Pelican, Call sign C6RE7, will carry out some diving works in the 500m zones of the following locations:

Dunbar platform	UKCS 3/14a	60° 37.77' N 01° 39.15' E
Jura 1 wellhead	UKCS 3/15a	60° 32.65' N 01° 53.98' E
Forvie manifold	UKCS 3/15d	60° 31.41' N 01° 52.13' E
Forvie North wellhead	UKCS 3/15d	60° 30.74' N 01° 50.12' E



Please avoid this operation.

MV Leanne (PD345), Call Sign: GBYX, is acting as guard vessel, at the Jura 1 wellhead location: 60° 32.63' N 01° 53.97' E

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

## Seabed Activity

First Published: 19 September 2017 | Latest Update: 19 September 2017

## Lancaster Field – Boulder Moving Operations

On behalf of Hurricane Energy plc, the Far Superior will mobilise to the Lancaster field located in Block 205/21a to the west of Shetland. The vessel will be used to move boulders or other debris from the field, ahead of future field development operations.



Operations will be centred around 60°10.794'N 003°52.196'W with the vessel moving up to approximately 1.5 km from this location. The vessel will be held in position by DP with no requirement for anchors, but equipment will be deployed from the vessel during operations hampering its movement. Based on current timings, the vessel will arrive on site in the Lancaster field no earlier than 25 September 2017 and all operations will be complete by the end of October.

For further information: Kirsty McWilliam, Hurricane, Tel: +44 1483 862820 email: [Kirsty.mcwilliam@hurricaneenergy.com](mailto:Kirsty.mcwilliam@hurricaneenergy.com)

**Edradour / Glenlivet Field Development – Construction Activities**

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

MV Searcher (BF205), Call Sign: MKJF6, is acting as guard vessel and will be replaced by MV Seagull (BF74), Call Sign: MVB02, part way between Edradour & Edradour PLEM at the following location:  
60° 55.39' N 02° 23.73' W

MV Courageous (LK470), Call Sign: MPWV9, is acting as guard vessel and will be replaced by Shalimar II (PD303), Call Sign: MJLF9, part way between Edradour & Glenlivet at the following location:  
61° 00.28' N 02° 09.16' W

The construction vessel MV Far Superior, Call Sign: LATJ7, has departed the field.  
The construction vessel Olympic Challenger, Call Sign: C6ZZ7, is working in the field since 21st July.  
The rock dumper Nordnes, Call Sign: PHOG is mobilizing in the field on 20th September for approximately 2 weeks.

Once all construction works will be completed (anticipated around mid to end of September), guard vessels will be released from site.

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

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

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

## Seabed Activity

First Published: 07 September 2017 | Latest Update: 07 September 2017

**Azinor Agar – Drilling Operations**

Azinor Catalyst is planning a drilling operation at the Agar location in UK Licence Block 9/14

Drilling Rig/Ship	Installation / Well No	Position	Start / Finish	Duration
Ocean Guardian	Agar 9/14	59°37.498'N 001°44.708'E	06/09/17	25 Days

For further information: John Campbell, Anatec Ltd, Tel: +44 1224 253700 email: johnc@anatec.com

## Seabed Activity

First Published: 24 March 2016 | Latest Update: 05 September 2017

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

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

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

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

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

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

## Seabed Activity

First Published: 01 June 2017 | Latest Update: 24 August 2017

**Leadon Development – Decommissioning**

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

The 2017 Decommissioning campaign at Leadon will see the Maersk Master AHT complete recovery of the approx. 6.8km long flexible flowline from outside the Beryl 500m zone to the Leadon mid-line structure. Recovery operations will commence

in mid-June as part of the Janice, James and Leadon Fields joint decommissioning campaign.

An additional vessel campaign will see the Maersk Achiever in field in July 2017 for the recovery of 6x Riser Bases at the mid-line structure location (59Te, 79Te, 79Te, 79Te, 95Te, 95Te all approx. 6m x 6m x 6m). Further to this, the Achiever will complete the bundle cutting scope, consisting of 4x Diamond Wire cuts in total, 1x cuts at both of the North and South Towhead locations and 2x cuts (1x either side) at the mid-line structure.

The remaining subsea facilities including the Leadon bundle (42.5 inch and 47.5 inch outer diameter with total length of 4.2km) and associated towheads comprising the North towhead (370Te) 28.7m x 6m x 4.6m, South towhead (275Te) 25.7m x 6m x 4.5m and the mid-line structure (282Te) 41.2m x 6m x 4.6m will be decommissioned during future offshore campaigns in accordance with the approved Decommissioning Programme.

A summary of the upcoming activities is as follows:

Location	Block	Coordinates	Activity	Schedule
Beryl Alpha to Leadon Midline Structure	9/13 & 9/14a	59°32.570'N 01°32.565'E 59°33.858'N 01°39.403'E	Recovery of Flexible flowline approx. 6.8km length	Completed June 2017
Leadon North Towhead	9/14a	59°34.708'N 01°39.323'E	North Towhead 1x Bundle Cut	August - Sept 2017
Leadon South Towhead	9/14a	59°32.562'N 01°39.495'E	South Towhead 1x Bundle Cut	August - Sept 2017
Leadon Midline Structure	9/14a	59°33.708'N 01°39.403'E	Midline Structure 2x Bundle Cuts	August - Sept 2017
Leadon Midline Structure	9/14a	59°33.708'N 01°39.403'E	Recovery of 6x Riser Bases	August - Sept 2017

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

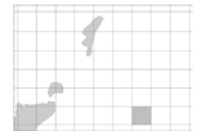
## Seabed Activity

First Published: 24 August 2017 | Latest Update: 24 August 2017

### Balmoral Field – Well Intervention Operations

Please be advised that Premier Oil UK will commence well intervention work in September 2017 on the Balmoral Field in the Central North Sea (Block 16/21).

The work involves the intervention of several wells and this email is to advise that the LWIV "Seawell" will be at the following locations:



Location	Coordinates	Date
Well 16/21a-10Z	58°13.002'N 001°07.139'E	September 2017
Well 16/21a-7Z	58°14.697'N 001°06.299'E	September 2017
Well 16/21a-11	58°14.713'N 001°04.224'E	October 2017
Well 16/21b-14	58°13.607'N 001°03.655'E	October 2017
Well 16/21b-4A	58°12.666'N 001°10.567'E	November 2017

Note: All dates are subject to change however September is the earliest current start date.

For further information: Mike Swankie, Premier Oil email: [mswankie@premier-oil.com](mailto:mswankie@premier-oil.com)

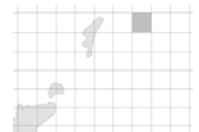
## Seabed Activity

First Published: 17 August 2017 | Latest Update: 17 August 2017

### Don South West and West Don – Water Injection Pipeline Replacement Project

EnQuest are planning to undertake the installation of a water injection flexible pipelines between Northern Producer and the Don South West and West Don Water Injection drill centres.

The earliest start date for operations to commence is 29th August. The operations are expected to last from the 30th August to mid-October. The operations will be undertaken from the following vessels:



- Deep Explorer DSV
- Wellservicer DSV
- (TBC) Rockdumper

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

Location	Coordinates
Northern Producer	61°29.251'N 001°27.860'E
Don South West	61°28.083'N 001°33.435'E
West Don	61°29.631'N 001°25.672'E

For further information: Natalie Cooper, EnQuest, Tel: +44 1224 975694 email: [natalie.cooper@enquest.com](mailto:natalie.cooper@enquest.com) [www.enquest.com](http://www.enquest.com)

## Oseberg Field – Installation Activities

Statoil will in the period from April to October 2017 perform marine activities in the area Oseberg Field Center, Tune/ Delta 1, Vestflanken G4 and Delta O/ Delta P templates.



A new unmanned wellhead platform (Oseberg H) will be installed at field approx. 8 km northwest from Oseberg Field Center together with new infrastructure.

A new umbilical will be installed between Oseberg A and Oseberg H. The umbilical will be unprotected from April to end of September. **During this period the product will not be trawlable.**

Two new pipelines will be installed, a production pipeline from Oseberg Field Center to Oseberg H and a gas injection pipeline from Oseberg Field Center to Delta 1/ Tune subsea templates.

The pipelines will be unprotected from May to end of September. **During this period the products are not trawlable.**

In relation to tie-in of new spools, pipelines and umbilical there will be wet-stored equipment close to Tune/Delta 1, Vestflanken G4, Oseberg H, Template O and P, and Oseberg Field Center. The equipment will not be trawlable during the

Vessel	Activity	Start Finish
Normand Mermaid	Wet-storage of spools and covers	01/08/17 – 15/08/17
Normand Mermaid	Spool installation and tie-in	15/08/17 – 15/09/17
Viking Neptune	Wet-storage of covers and spools at Tune and Oseberg Field Centre	20/08/17 – 25/08/17
Hermod	Installation of unmanned wellhead platform (Oseberg H)	01/07/17 – 30/07/17
TBC	Rock installation	19/08/17 – 20/09/17
TBC	Rock Installation	15/10/17 – 20/10/17

period from 1 of April to end of September.

Installation and operations are weather dependent, hence changes to schedule can occur.

Area	Coordinates
Oseberg A	60°29.481'N 02°49.539'E
Delta L	60°28.054'N 02°40.797'E
Delta P	60°27.385'N 02°41.605'E
Delta O	60°23.978'N 02°40.170'E
Vestflanken G4	60°32.226'N 02°41.036'E
Oseberg H	60°32.878'N 02°43.901'E

**For further information:** Precautionary area will be surveilled by Statoil Operasjonssenter; telephone number +47 55 14 32 78 or VHF ch 10  
Questions may be directed to Annette Veka, mobile number +47 41 20 23 96.



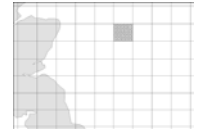
## Montrose BLP Project – Development Operations

### Offshore campaigns upcoming;

DSV Seven Falcon – 6th October. DSV will undertake subsea construction installation activities, including umbilical tie in, spool tie in operations, leak testing at Shaw Water Injection drill centre. (Duration 12 days)

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

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



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

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

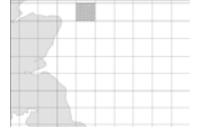
## Seabed Activity

First Published: 01 June 2017 | Latest Update: 19 September 2017

### Verbier – Notification of Works UKCS 20/5b

Please be advised of the following drilling activities that are in progress

Activity	Vessel & Call Sign	Position	Date / Duration	Comments
Verbier well	Transocean Spitsbergen V7ZS8	57°56.018'N 00°04.371'W	Mid – Aug -October 66 days	The Transocean Spitsbergen is a semi-submersible drilling unit and is anchored at this location to drill an exploration well.



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

## Seabed Activity

First Published: 15 June 2017 | Latest Update: 19 September 2017

### Culzean Field - Jacket Installation

The Culzean CPF & ULQ jackets have now been installed in the Culzean Field (Block 22/25a) at the following coordinates:

Area	Coordinates
Culzean ULQ Jacket Centre	57°11.415'N 001°54.474'E
Culzean CPF Jacket Centre	57°11.475'N 001°54.582'E



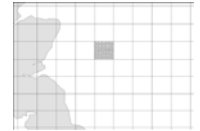
Please note: these structures have now 500m safety zones enacted around them.

- See 'Anchor list' for Culzean FSO Anchors and Chain End coordinates

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

## Catcher Area – Development Project

Subsea construction activities on behalf of Premier Oil UK Limited on the Catcher Area Development (including the Catcher, Burgman and Varadero fields) located in block 28/9a of the UKCS 56°46.200'N 000°42.783'E



To date, the following have been 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	56°48.366'N 00°42.258'E
Varadero Drilling Template 1:	56°48.369'N 00°42.337'E
Varadero Drilling Template 2:	
2 x drilling template structure at Catcher drill centre	56°46.277'N 00°46.299'E
Catcher Drilling Template 1:	56°46.321'N 00°46.296'E
Catcher Drilling Template 2:	
2 x drilling template structure at Burgman drill centre	56°44.542'N 00°40.640'E
Burgman Drilling Template 1:	56°44.566'N 00°40.581'E
Burgman Drilling Template 2:	

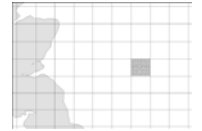
Please note; Each drill centre has an approved HSE 500m safety exclusion zone in force.

- Pipeline Bundles:**  
Three (3) x 3.5km pipeline bundles have been installed on the seabed between each Drill Centre and the future FPSO location.
- FPSO Mooring System:**  
Twelve (12) x 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, WGS84), where the mooring lines are connected to a Submerged Turret Production (STP) buoy - top of buoy at approximately 16m 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.
- Spoil deposit**  
There is a Spoil deposit adjacent to the Curlew Deep Gas Diverter structure, 6.0m diameter and 2.5m high, located at 56° 43' 29.71" N & 01° 42' 56.63" E
- Offshore Dive Support Vessels (DSV) or Construction Support Vessels.**  
There are currently no Support vessels working in the Catcher Development area. The Seven Pelican DSV is currently scheduled to return to the field mid-late September 2017. Diving will be undertaken for Spool Tie-ins activities at the Burgman Drill Centre location. The vessel will have limited manoeuvrability during this time.
- A Scottish Fishermen's Federation guard vessel [MV "Silver Wave" BF372] is currently monitoring the STP Buoy location.**

For further information: Steve Quayle, Tel: 01224 914298 email: squayle@premier-oil.com

## Janice, James and Affleck – Decommissioning

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



The Janice FPU and its associated moorings and anchors were towed/recovered during the 2016 Phase 3a offshore campaign. A number of small structures as well as the Janice cluster and previously disconnected graveyard risers were also recovered to the Maersk Achiever.

As part of the 2017 Janice Decommissioning campaign, the Maersk Master AHTS completed recovery of the flexible flowline and umbilical between the Janice Cluster and James Wells, as well as performing debris clearance activities at both locations. Following this, the Maersk Achiever has been in field since July and will remain so throughout August and September recovering miscellaneous structures (Mid-Water Arches, Manifolds, Xmas Trees etc.), debris, pipeline sections and mattresses from the Janice Drill Centre, James Drill Centre and Affleck locations.

The Janice and James subsea wells Plug and Abandonment campaign has been ongoing throughout 2017, with the Ocean Valiant Drilling Rig having returned to the Janice Drill Centre to re-commence P&A activities at the beginning of August. P&A of the 2x James subsea wells was completed during June 2017, these trees will be recovered by the Maersk Achiever in September.

The remaining subsea infrastructure will be decommissioned during future offshore campaigns in accordance with the approved Decommissioning Programme. A summary of the upcoming activities is as follows:

Location	Block	Coordinates	Activity	Schedule
Janice Drill Centre to James Drill Centre	30/17a	56°23.706'N 02°15.316'E to 56°21.485'N 02°18.835'E	Recovery of Flexible flowline and umbilical approx. 5.5km length	Completed July 2017
Janice Drill Centre (within 500m zone)	30/17a	56°23.706'N 02°15.316'E	Debris Clearance	July – Sept 2017
James Drill Centre (within 500m Zone)	30/17a	56°21.485'N 02°18.835'E	Debris Clearance	July – Sept 2017
Janice Drill Centre (within 500m zone)	30/17a	56°23.706'N 02°15.316'E	Structure Recovery	July – Sept 2017
Janice Drill Centre (within 500m zone)	30/17a	56°21.485'N 02°18.835'E	Structure Recovery	July – Sept 2017
Affleck Drill Centre (within 500m zone)	30/19a	56°26.552'N 02°42.077'E	Structure Recovery & Debris Clearance	July – Sept 2017

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

## Notice to Fishermen

First Published: 20 April 2017 | Latest Update: 19 September 2017

## Fishing Hazard – Pipeline Span PL20



The pipeline is no longer a hazard and is stable on the seabed and not mobile. The displaced section of pipeline has been removed from the seabed. The remaining ends are plugged and buried within the sandbanks. A guard vessel remains on location until a further seabed survey is undertaken. This is expected to take place at the end of October 2017.

Approximate location: 52°59.376'N 001°34.262'E

For further information: Bob Brighton, Petrofac, Tel 01493 416811 email: [Robert.brighton@petrofac.com](mailto:Robert.brighton@petrofac.com)

## Notice to Fishermen

First Published: 07 September 2017 | Latest Update: 07 September 2017

## Fishing Hazard – Pipeline Span Juliet Export Line



Please be advised of a Pipeline Span: an exposed pipeline and umbilical on the Juliet export line which is currently in operation/producing. Both pipeline and umbilical is approximately 1.3m above the seabed

12" Production Pipeline Span 13m Long x 1.3m Height above Seabed

Umbilical Span 15m Long x 1.3m Height above Seabed

Position: 53°33.726'N 00°59.092'E

For further information: Jonathan Hoare, CNR International (UK) Ltd Tel: +44(0)1224 303757 email: [jonathan.hoare@cnrl.com](mailto:jonathan.hoare@cnrl.com)

## Notice to Fishermen

First Published: 13 July 2017 | Latest Update: 07 September 2017

## Fishing Hazard – Wreck MV Ella



Please be advised the vessel MV Ella Sank and has been marked with a 25 litre can attached to 110m of rope at the following position

Position: 52°25.230'N 001°49.670'E

For further information: Lee Cornwall, Galloper Wind Farm, Tel: +44(0)7917 474352 email: [lee.cornwall@innogy.com](mailto:lee.cornwall@innogy.com)

## Seabed Activity

First Published: 24 August 2017 | Latest Update: 24 August 2017

## Vampire OD Platform – Drilling Operations

ConocoPhillips wish to inform you that the Ensco 92 has an upcoming move from the River Tees Fairway Buoy to the Vampire OD platform (block 49/16)

Drilling Rig/Ship	Installation / Well No	Position	Start / Finish	Duration
Ensco 92	Vampire OD/ 49/16-11 (V1), 49/16-V2, 49/16-V3Y	53°27.903'N 02°02.467'E	21/08/17	80 Days

For further information: Calum McMillan, ConocoPhillips UK Ltd, Tel: 01224 205315 email: [callum.e.mcmillan@conocophillips.com](mailto:callum.e.mcmillan@conocophillips.com)

## Notice to Fishermen

First Published: 25 July 2017 | Latest Update: 25 July 2017

## Fishing Hazard – Possible Seabed Obstruction



Hazardous Pipeline Spans (gaps underneath the pipeline) 2 x pipeline spans – gaps underneath the pipeline – have been reported at the position below. They are approx. 2 metres high and 16 metres and 12 metres long.



## Coordinates

54°59.484'N 005°13.235'W

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

## Notice to Fishermen

First Published: 13 July 2017 | Latest Update: 13 July 2017

## Fishing Hazard – Possible Seabed Obstruction



The Department of Transport, Tourism and Sport has been advised by PSE Kinsale Energy Ltd that following a survey of the Kinsale Head gas field pipeline, a possible seabed obstruction has been identified. The nature of the seabed obstruction may present a hazard to ground fishing equipment. Any fishing vessels operating within the area are advised to proceed with caution.



## Coordinates

51°42.600'N 008°11.214'W  
51°41.622'N 008°10.739'W  
51°41.327'N 008°11.466'W  
51°41.778'N 008°11.941'W

For further information: UKHO, Tel: +44(0)1823 352448 email: [navwarnings@btconnect.com](mailto:navwarnings@btconnect.com)

## Area 1 Rig List

Latest Update: 18 September 2017

MOVEMENT	RIG	POSITION	MOVEMENT	RIG	POSITION
	Enesco 80	58°08.90'N 03°01.20'W		Transocean Leader	59°56.90'N 01°15.80'E
	Maersk Intrepid	58°25.10'N 01°42.90'E	<b>New</b>	Deepsea Aberdeen	60°19.90'N 04°06.30'W
<b>New</b>	Ocean Guardian	Invergordon		West Phoenix	60°37.70'N 03°00.90'W
	Maersk Integrator	58°34.30'N 01°41.80'E		Safe Scandinavia	60°41.90'N 02°55.90'E
	Deepsea Atlantic	58°45.90'N 02°31.10'E		COSL Promoter	60°44.60'N 03°36.30'E
	Rowan Viking	58°50.60'N 02°14.90'E		Songa Endurance	60°48.50'N 03°35.60'E
	Maersk Interceptor	58°55.30'N 02°11.80'E		Songa Equinox	60°54.90'N 03°37.50'E
	Wilphoenix	59°26.90'N 01°37.20'E		West Elara	61°02.30'N 02°20.30'E
	Transocean Arctic	59°29.70'N 01°57.90'E		Transocean 712	61°19.40'N 01°32.10'E
	Maersk Gallant	59°34.90'N 01°39.40'E	<b>New</b>	Deepsea Bergen	Averoy
	Safe Boreas	59°35.20'N 01°03.20'E		Bideford Dolphin	61°29.10'N 02°13.20'E
	Noble Lloyd Noble	59°35.40'N 01°03.40'E		Deepsea Stavanger	64°58.40'N 06°58.50'E

## Area 2 Rig List

Latest Update: 18 September 2017

MOVEMENT	RIG	POSITION	MOVEMENT	RIG	POSITION
<b>New</b>	Maersk Resilient	55°31.80'N 05°00.30'E		Safe Caledonia	57°00.70'N 01°50.20'E
	Noble Sam Turner	55°32.30'N 05°01.90'E		Prospector 5	57°00.73'N 01°50.41'E
	Maersk Guardian	55°34.80'N 04°45.40'E		Noble Hans Deul	57°01.90'N 01°57.30'E
	Maersk Innovator	56°22.60'N 03°15.50'E		Ocean Patriot	57°10.40'N 01°44.80'E
	Ocean Valiant	56°23.70'N 02°15.30'E		Maersk Highlander	57°11.70'N 01°54.80'E
	Enesco 122	56°43.60'N 02°05.20'E		Stena Spey	57°17.80'N 01°21.90'E
	Enesco 100	56°46.40'N 00°46.40'E		Rowan Norway	57°22.50'N 01°23.00'E
	Paul B Loyd	56°50.10'N 01°42.90'E	<b>New</b>	Transocean Spitsbergen	57°56.20'N 00°04.40'W
	Enesco 120	56°51.00'N 02°15.30'E		Paragon MSS1	57°57.01'N 01°12.75'E
<b>New</b>	Rowan Gorilla V	56°58.00'N 01°52.20'E			

## Area 3 Rig List

Latest Update: 18 September 2017

MOVEMENT	RIG	POSITION	MOVEMENT	RIG	POSITION
<b>New</b>	Maersk Resolute	52°52.90'N 04°19.20'E	<b>New</b>	GMS Endeavour	53°45.00'N 03°18.60'E
	Paragon Prospector 1	53°10.00'N 02°54.10'E		Seajacks Zaratan	53°50.10'N 00°26.60'E
	590021	53°14.00'N 03°14.50'E		Rowan Gorilla VII	54°03.30'N 01°02.10'E
	Atlantic Amsterdam	53°17.80'N 00°48.50'E		Maersk Resolve	54°15.10'N 02°31.40'E
	Enesco 72	53°23.20'N 04°15.60'E		Seafox 1	54°26.90'N 02°28.80'E
	Seafox 4	53°27.80'N 01°55.10'E		Enesco 121	54°35.70'N 00°26.00'E
	Enesco 92	53°28.00'N 02°02.50'E			
	Enesco 101	53°39.20'N 03°52.50'E			

## Area 4 Rig List

Latest Update: 18 September 2017

MOVEMENT	RIG	POSITION	MOVEMENT	RIG	POSITION
	Stena Icemax	50°47.00'N 12°58.80'W			

## Area 5 Rig List

Latest Update: 18 September 2017

MOVEMENT	RIG	POSITION	MOVEMENT	RIG	POSITION
	Irish Sea Pioneer	53°37.90'N 03°10.60'W		Seafox 2	54°05.60'N 03°51.40'W
	GMS Endurance	53°51.80'N 03°37.10'W			

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

## Area 1 Anchor List

Latest Update: 10 August 2017

### Deepsea Aberdeen – Pre-Laid at Schiehallion West Drill Centre

Anchor No.	Position	Anchor No.	Position	Anchor No.	Position
Rig	60°20.100'N 04°02.400'W	3	60°25.483'N 04°03.903'W	6	60°24.440'N 04°01.812'W
1	60°24.402'N 04°04.853'W	4	60°25.678'N 04°02.547'W	7	60°24.017'N 04°02.557'W
2	60°25.032'N 04°04.875'W	5	60°25.057'N 04°01.780'W	8	60°24.010'N 04°04.015'W

### Deepsea Aberdeen – Schiehallion Loyal Drill Centre

Anchor No.	Anchor Position	Surface Buoy	Anchor Position	Surface Buoy
Well				
1	60°24.426'N 004°06.108'W	60°24.438'N 004°04.686'W	5	60°25.314'N 004°00.450'W
2	60°25.284'N 004°06.132'W	60°24.996'N 004°04.404'W	6	60°24.174'N 004°00.420'W
3	60°26.112'N 004°04.476'W	60°26.112'N 004°04.476'W	7	60°23.358'N 004°01.950'W
4	60°26.136'N 004°02.178'W	60°25.434'N 004°02.718'W	8	60°23.310'N 004°04.356'W

### Deepsea Aberdeen – Schiehallion Central Drill Centre

Anchor No.	Anchor Position	Surface Buoy	Anchor Position	Surface Buoy
Well				
1	60°19.602'N 004°05.592'W	60°19.800'N 004°03.660'W	5	60°20.454'N 003°59.346'W
2	60°20.646'N 004°04.776'W	60°20.322'N 004°03.600'W	6	60°19.266'N 003°59.700'W
3	60°21.336'N 004°03.102'W	Anchor Laid Down on Seabed	7	60°20.112'N 004°01.692'W
4	60°21.432'N 004°00.948'W	60°20.670'N 004°01.710'W	8	60°18.624'N 004°04.038'W

### Transocean Spitsbergen – at Verbier 20/5b

Anchor No.	Position	Anchor No.	Position	Anchor No.	Position
Rig	57°56.018'N 00°04.371'W	3	57°56.647'N 00°03.919'W	6	57°55.413'N 00°03.814'W
1	57°56.257'N 00°05.560'W	4	57°56.291'N 00°03.321'W	7	57°55.388'N 00°04.823'W
2	57°56.623'N 00°04.929'W	5	57°55.778'N 00°03.183'W	8	57°55.721'N 00°05.514'W

### Transocean Arctic – At Volund West

Anchor No.	Position	Anchor No.	Position	Anchor No.	Position
Rig	59°29.079'N 001°50.029'E	3	59°29.891'N 001°49.142'E	6	59°28.747'N 001°51.723'E
1	59°28.775'N 001°48.287'E	4	59°29.972'N 001°50.560'E	7	59°28.218'N 001°50.728'E
2	59°29.411'N 001°48.348'E	5	59°29.484'N 001°51.679'E	8	59°28.235'N 001°49.402'E

### Transocean Arctic – At Volund West

The bottom chains connected to the anchors have been laid down with 180m pennant wires and ROV pickup system.

Chain length: 1305m

Anchor No.	Position	Anchor No.	Position	Anchor No.	Position
1	59°28.774'N 001°48.288'E	2	59°29.410'N 001°48.349'E	3	59°29.890'N 001°49.142'E

### Transocean 712 – At Osprey

Anchor No.	Position	Anchor No.	Position	Anchor No.	Position
Rig	61°19.496'N 001°32.716'E	3	61°20.113'N 001°33.270'E	6	61°18.074'N 001°33.551'E
1	61°19.792'N 001°31.340'E	4	61°19.700'N 001°33.985'E	7	61°18.656'N 001°31.970'E
2	61°20.112'N 001°32.162'E	5	61°19.080'N 001°34.219'E	8	61°19.210'N 001°31.331'E

### Blackford Dolphin – As Laid Pattern Captain B

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

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 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

Area 2 Anchor List

Latest Update: 07 September 2017

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

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

Paragon MSS1 – As Laid at Chestnut Infill Well

Anchor No.	Position	Anchor No.	Position	Anchor No.	Position
Rig	57°57.015'N 001°12.750'E	5	57°56.810'N 001°14.150'E	10	57°56.850'N 001°11.500'E
1	57°57.750'N 001°12.400'E	6	57°56.490'N 001°13.770'E	11	57°57.230'N 001°11.250'E
2	57°57.690'N 001°13.070'E	7	57°56.300'N 001°13.090'E	12	57°57.550'N 001°11.730'E
3	57°57.550'N 001°13.550'E	8	57°56.330'N 001°12.410'E		
4	57°57.240'N 001°14.390'E	9	57°56.530'N 001°11.870'E		

PBLJ – At Capercaillie

Anchor No.	Position	Anchor No.	Position	Anchor No.	Position
Rig	56°50.055'N 001°42.779'E	3	56°50.397'N 001°44.339'E	6	56°49.199'N 001°42.154'E
1	56°50.925'N 001°42.144'E	4	56°49.709'N 001°44.350'E	7	56°49.711'N 001°41.224'E
2	56°50.905'N 001°43.402'E	5	56°49.222'N 001°43.388'E	8	56°50.401'N 001°41.213'E

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

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

Culzean – Culzean FSO Anchors

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

Safe Caledonia – Elgin

As part of the Safe Caledonia move to the Elgin Field in the Central North Sea, a mooring system comprising anchors and mooring lines has been installed as of 24th April at the following locations. Please avoid this mooring pattern

Anchor No.	Position	Anchor No.	Position	Anchor No.	Position
Rig	57°00.570'N 001°49.970'E	4	57°00.791'N 001°48.091'E	8	57°00.399'N 001°51.631'E
1	56°59.719'N 001°49.579'E	5	57°01.497'N 001°49.888'E	9	56°59.766'N 001°50.607'E
2	56°59.869'N 001°49.011'E	6	57°01.477'N 001°50.321'E	10	57°01.321'N 001°48.663'E
3	57°00.193'N 001°48.188'E	7	57°00.636'N 001°51.655'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		

## Area 1 Survey List

Latest Update: 19 September 2017

Company & Vessels	Towed Cable Length & Depth	Area Covered 1 (inc Quod Blocks)	Area Covered 2 (inc Quod Blocks)	Duration
Enquest Heather Ltd TBC TBC	TBC	Centered on: 61°27.985'N 001°31.899'E	211/18	29/09/2017 - 31/10/2017 For 7 Days
Chrysaor Ltd TBC TBC	TBC	58°01.698'N 001°42.698'E 58°01.701'N 001°43.003'E 58°01.536'N 001°42.704'E 58°01.539'N 001°43.009'E	16/29a	01/10/2017 - 31/10/2017 For 5 Days
CGG Services S.A Geo Coral LACA8 Bourbon Team 5BDQ4		60°57.021'N 000°54.732'E 60°57.661'N 001°46.925'E 60°21.983'N 001°48.260'E 60°21.358'N 000°57.020'E	2; 3	01/10/2017 - 30/11/2017 For 30 Days
Fugro Survey Limited Fugro Venturer C6CG3	1500m 3m	58°20.654'N 001°54.538'W 58°20.475'N 001°36.108'W 58°15.591'N 001°36.301'W 58°15.770'N 001°54.688'W	13	01/10/2017 - 31/12/2017 For 7 Days
Fugro Fugro Searcher 3EUY6	Autonomous Underwater Vehicle	60° 08.093' N 01° 40.807' E 60° 08.140' N 01° 45.666' E 60° 05.716' N 01° 45.757' E 60° 05.670' N 01° 40.904' E	3/29	20/09/2017 - 24/09/2017 For 5 Days
Fugro Survey AS M/V Fugro Galaxy G6YY4	1400m 3m	58°38.998'N 000°40.722'E 58°45.158'N 000°51.913'E 58°37.539'N 001°07.404'E 58°31.374'N 000°56.224'E	15; 16	15/09/2017 - 30/11/2017 For 10 Days
TBC		60°11.412'N 003°52.512'W 60°10.287'N 003°53.137'W	205	15/09/2017 - 31/10/2017 For 30 Days
Fugro Fugro Searcher 3EUY6		60°08.615'N 001°40.807'E 60°08.140'N 001°45.666'E 60°05.716'N 001°45.757'E 60°05.670'N 001°40.904'E	3	13/09/2017 - 30/10/2017 For 1 Day
MMT M/V Stril Explorer LAZT7		58°25.614'N 001°29.174'E 58°33.337'N 002°12.599'E 58°49.464'N 001°01.409'E 59°27.436'N 001°57.100'E 59°29.038'N 001°12.141'E 59°31.399'N 001°15.091'E		13/09/2017 - 18/10/2017
Fugro Fugro Searcher 3EUY6	Autonomous Underwater Vehicle  Seismic streamer 1200m tow	60° 23.667' N 04° 08.657' W 60° 25.870' N 04° 03.874' W 60° 24.765' N 04° 01.798' W 60° 23.848' N 04° 03.792' W 60° 23.256' N 04° 02.680' W 60° 21.972' N 04° 05.468' W 60° 21.657' N 04° 04.876' W 60° 19.821' N 04° 08.853' W 60° 20.136' N 04° 09.446' W	204/19, 20	10/09/2017 - 09/10/2017 For 30 Days
Fugro Survey Ltd	1400m	58°45.164'N 000°51.918'E	15/9, 15/10, 15/14,	September / October

Mv Fugro Galaxy	3m	58°37.547'N 001°07.402'E 58°31.380'N 000°56.219'E 58°38.997'N 000°40.718'E	15/15, 16/06, 16/11	For 20 Days
Schlumberger TBA		60°40.122'N 003°23.830'W	206	01/09/2017 - 30/03/2018 For 1 Day
Gardline Geosurvey Ltd MV Ocean Endeavour GAAL MV Ocean Researcher GDLS	1200m 3m	59°32.525'N 001°32.694'E 59°30.261'N 001°39.912'E 59°26.594'N 001°35.458'E 59°28.855'N 001°28.249'E	9	21/08/2017 - 31/12/2017 For 4 Days
Fugro Survey Ltd MV Fugro Venturer C6CG3		61°40.610'N 001°28.557'E 61°40.534'N 001°35.397'E 61°31.507'N 001°28.125'E 61°31.360'N 001°40.909'E	211	15/08/2017 - 30/11/2017 For 5 Days
Fugro Survey Ltd MV Fugro Venturer C6CG3		61°36.364'N 001°30.149'E 61°36.300'N 001°35.802'E 61°33.608'N 001°35.664'E 61°33.672'N 001°30.019'E	211	15/08/2017 - 30/11/2017 For 4 Days
FairfieldNodal MV Ocean Pearl C6ZW4 Geowave Commander LAKY6 Shemarah II MVRR7	83m 8m	58°19.749'N 001°24.124'E 58°19.973'N 001°44.192'E 58°09.552'N 001°44.562'E 58°09.329'N 001°24.592'E	16	25/08/2017 - 30/09/2017 For 30 Days
Fugro Survey AS MV Fugro Galaxy C6YY4	1400m 3m	58°18.663'N 001°26.920'E 58°25.130'N 001°26.637'E	16	27/07/2017 - 31/10/2017 For 1 Day
PGS Exploration (UK) Ltd Sanco Swift ZDKY8	8100m 25m	60°50.834'N 001°16.953'E 60°51.173'N 001°53.238'E 60°29.993'N 001°57.392'E 60°28.910'N 001°57.602'E 60°27.292'N 001°56.903'E 60°26.076'N 000°25.716'E 60°28.459'N 000°24.007'E 60°47.718'N 000°13.571'E 60°50.764'N 000°14.591'E 60°51.741'N 001°12.172'E 60°51.807'N 001°16.874'E	2; 3	03/07/2017 - 01/11/2017 For 42 Days
WesternGeco Limited MV WG Amundsen - 5BXE2 MV WG Magellan - 5BPK2 MV WG Columbus - 5BNS2 MV WG Vespucci - 5BXF2		60°44.747'N 002°54.058'W 60°28.907'N 002°51.595'W 60°15.552'N 002°30.944'W 59°35.628'N 004°02.055'W 60°02.400'N 004°45.355'W 60°14.047'N 004°17.031'W 60°38.236'N 004°11.518'W 61°00.664'N 003°17.674'W	202; 203; 204 205; 206	15/06/2017 - 31/10/2017 For 93 Days
Maersk Oil North Sea Uk Ltd MV WG Magellan	4300m 18m	57°58.518'N 002°25.455'W 58°00.363'N 001°38.491'W 58°11.693'N 001°39.953'W 58°15.308'N 001°54.491'W 58°14.680'N 002°10.553'W 58°10.274'N 002°27.230'W	12; 13; 18; 19	12/06/2017 - 30/10/2017 For 30 Days

## Area 2 Survey List

Latest Update: 19 September 2017

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°28.362'N 001°43.853'W 57°33.576'N 001°33.841'W 57°41.499'N 001°01.583'W 58°18.183'N 000°57.387'E 58°25.614'N 001°29.174'E		13/09/2017 - 12/10/2017
WG Amundsen HP8120 Astra-G HP8120 Mainport Pine V7ZH8	8 Streamers 75m 5km Long 7m to 23m	57°03.319' N 02°08.115' E 56°48.605' N 01°44.249' E 56°53.872' N 01°33.494' E 56°59.026' N 01°41.713' E 57°06.814' N 01°41.714' E 57°06.849' N 01°54.345' E	22; 23; 29; 30	Started - 21/09/2017 For 4 Days
TBC Fugro or Gardline	120m 1m	57°20.412'N 001°48.376'E 57°20.383'N 001°45.387'E 57°21.999'N 001°45.332'E 57°22.028'N 001°48.324'E	22	02/09/2017 - 02/01/2018 For 12 Days
TBC	100m 3m	58°02.880'N 000°59.137'W 58°02.721'N 000°49.488'W 57°52.893'N 000°50.082'W 57°52.051'N 000°59.687'W	20; 14	23/08/2017 - 31/10/2017 For 4 Days
Baker Hughes Wireline Island Spirit LAVQ7	2m 4m	57°11.406'N 001°53.889'E	22	18/08/2017 - 28/02/2018 For 2 Days

18 of 20

WesternGeco MV WG Columbus 5BNS2	3000m 5m	57°02.989'N 000°53.354'E 57°02.924'N 001°01.848'E 57°06.523'N 001°01.948'E 57°06.588'N 000°53.441'E	21	01/08/2017 - 30/09/2017 For 25 Days
Tideway Seahorse PCAP		57°18.911'N 001°19.156'E 57°18.994'N 001°25.140'E 57°15.761'N 001°25.273'E 57°15.677'N 001°19.306'E	22	22/07/2017 - 31/10/2017 For 3 Days
Havla Shipping ASA Havila Subsea - LGSY3		57°10.676'N 001°06.450'E 57°10.657'N 001°06.418'E 57°10.683'N 001°06.424'E	22	23/06/2017 - 01/10/2017 For 1 Day
Total E&P UK Limited TBA	5500m 7m	56°53.910'N 001°33.474'E 57°08.611'N 001°57.108'E 57°03.361'N 002°08.091'E 56°48.660'N 001°44.241'E	29; 22	15/05/2017 - 15/10/2017 For 10 Days
Total E&P UK Limited TBA	5500m 8m	56°53.909'N 001°33.475'E 57°08.606'N 001°57.103'E 57°02.196'N 002°10.529'E 56°47.585'N 001°46.433'E	29; 22	15/05/2017 - 15/10/2017 For 30 Days
Baker Hughes Wireline TBC	2m 4m	57°11.445'N 001°53.982'E	22	04/05/2017 - 31/12/2017 For 2 Days
MMT M/V Stril Explorer LAZT7		57°28.362'N 001°43.853'W 57°33.576'N 001°33.841'W 57°41.499'N 001°01.583'W 58°18.183'N 000°57.387'E 58°25.614'N 001°29.174'E		13/09/2017 - 12/10/2017

### Area 3 Survey List

Latest Update: 19 September 2017

Company & Vessels	Towed Cable Length & Depth	Area Covered 1 (inc Quod Blocks)	Area Covered 2 (inc Quod Blocks)	Duration
Polarcus DMCC Polarcus Asima C6XK6	625m 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	01/10/2017 - 31/12/2017 For 36 Days
GeoXYZ GeoSurveyor VI 2ENE7		53°39.772'N 000°06.919'E 53°21.561'N 000°28.042'E	47	18/09/2017 - 31/12/2017 For 7 Days
Fugro Subsea Services Ltd MV Fugro Searcher 3EUY6		53°08.010'N 001°28.869'E 52°53.236'N 001°28.869'E 52°53.236'N 001°56.018'E 53°08.010'N 001°56.018'E	48; 52	01/09/2017 - 22/12/2017 For 14 Days
Fugro Subsea Services Ltd Skandi Olympia C6XY8		54°01.980'N 000°43.593'E 53°00.265'N 002°53.683'E	48; 43; 42; 49	10/08/2017 - 10/10/2017 For 60 Days
Bibby Hydromap Bibby Tethra 2EGF8		53°04.776'N 002°10.313'E 53°05.042'N 002°11.341'E 53°04.423'N 002°11.783'E 53°04.156'N 002°10.755'E	49	24/07/2017 - 01/10/2017 For 3 Days
Fugro Survey Ltd Fugro Ventura C6CG3	100m 3m	53°18.216'N 001°19.455'E 53°15.226'N 002°05.359'E 52°51.567'N 001°27.429'E	48; 49	08/07/2017 - 31/10/2017 For 49 Days

### Area 5 Survey List

Latest Update: 19 September 2017

Company & Vessels	Towed Cable Length & Depth	Area Covered 1 (inc Quod Blocks)	Area Covered 2 (inc Quod Blocks)	Duration
Titan Environmental Surveys Ltd Titan Discovery 2HCR3	N/A	51° 26.837'N 003° 53.947'W 51° 29.382'N 003° 49.003'W 51° 28.981'N 003° 39.009'W 51° 24.215'N 003° 32.593'W 51° 24.284'N 003° 10.006'W 51° 26.925'N 003° 09.883'W 51° 26.946'N 003° 08.706'W 51° 23.943'N 003° 09.004'W 51° 21.277'N 003° 15.104'W 51° 21.241'N 003° 18.070'W 51° 22.543'N 003° 41.897'W 51° 26.837'N 003° 53.947'W		September 2017 until March 2018
Titan Environmental Surveys	N/A	51° 26.837'N 003° 53.947'W		September 2017

19 of 20

Ltd Titan Endeavour 2ELT9		51° 29.382'N 003° 49.003'W 51° 28.981'N 003° 39.009'W 51° 24.215'N 003° 32.593'W 51° 24.284'N 003° 10.006'W 51° 26.925'N 003° 09.883'W 51° 26.946'N 003° 08.706'W 51° 23.943'N 003° 09.004'W 51° 21.277'N 003° 15.104'W 51° 21.241'N 003° 18.070'W 51° 22.543'N 003° 41.897'W 51° 26.837'N 003° 53.947'W		until March 2018
Bibby Hydromap Bibby Athena 2ICA5 Proteus of Liverpool 2HBL7 Kommandor Iona GAAK Bibby Tethra 2EGF8		53°42.687'N 003°08.985'W 53°42.760'N 003°41.408'W 53°20.032'N 003°41.408'W 53°19.958'N 003°08.985'W	110	23/08/2017 - 30/11/2017 For 45 Days