

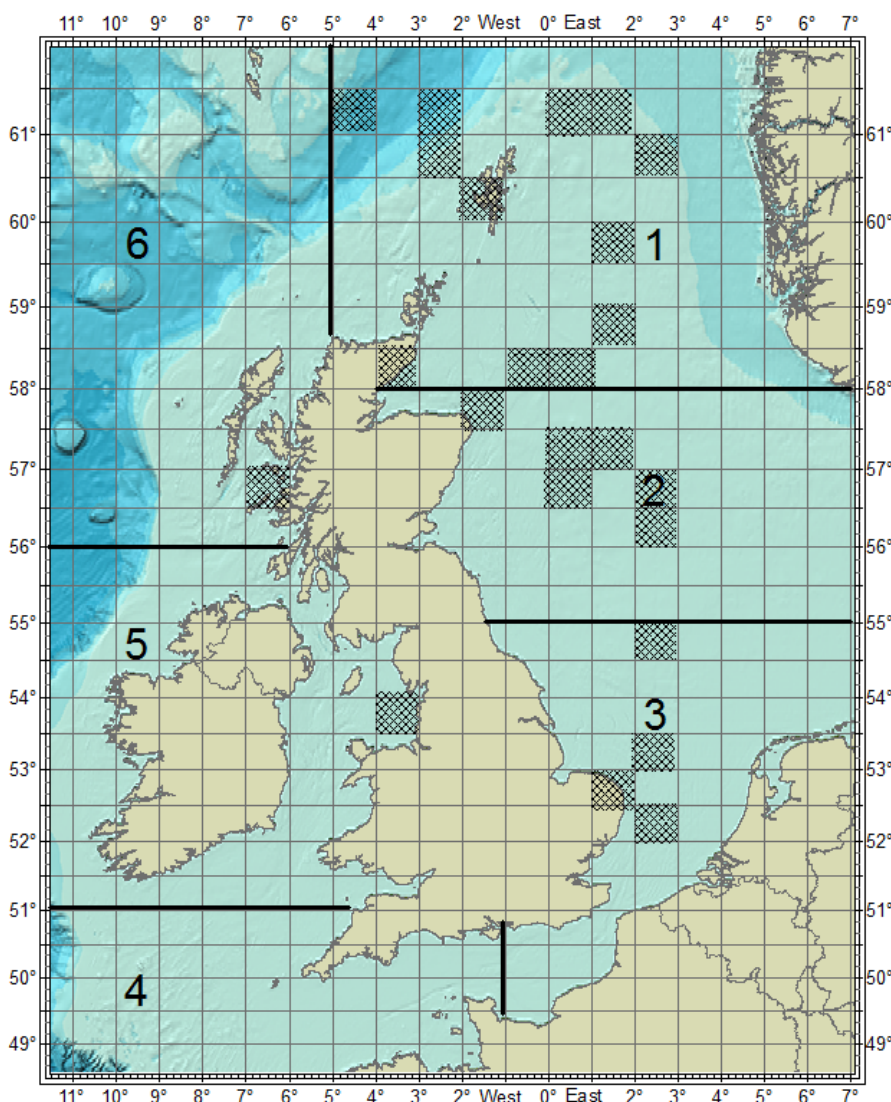
Kingfisher Bulletin

Offshore News

Oil & Gas

03 November 2016 | Issue 23

Shaded blocks indicate activity.



What's inside?

New Hazards (p.3)

Area 1 (p.4-8)

1. Notice to Fishermen
2. Seabed Activity

Area 2 (p.9-11)

1. Notice to Fishermen
2. Seabed Activity

Area 3 (p.12-31)

1. Notice to Fishermen
2. Seabed Activity

Area 4 (N/A)

1. N/A

Area 5 (p.14)

1. Seabed Activity

Area 6 (p.15)

1. Deployment of Buoys

Extra... (p.16-22)

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

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	nick.strachan@uk.bp.com		
Cement Block	57°49.735'N 001°02.347'W	25 Aug 2016	Brian.Beattie@nexencnooltd.com		
New Suspended Wellhead – 21/19-13	57°22.931'N 000°43.018'E	28 July 2016	Marcelle.wynter@oga.gsi.gov.uk		

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 r92oim@enscoplc.com		
Lost Wire	53°24.177'N 002°13.896'E	06 Oct 2016	David King r92oim@enscoplc.com		
Dropped objects in East Anglia Wind Farm	52°16.665'N 002°31.323'E	14 July 2016	v.griffiths@fugro.com		

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

Notice to Fishermen

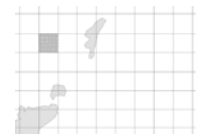
First Published: 03 November 2016 | Latest Update: 03 November 2016

Suspended Wellhead – Structure On the Seabed



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

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



For further information: Kirsty McWilliam, Petrofac, kirsty.m@petrofac.com

Notice to Fishermen

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

Abandoned Wellhead – Structure Removed form Seabed

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

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



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

Notice to Fishermen

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

Fishing Hazard – Protective Structures



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

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

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

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

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



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

Notice to Fishermen

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

Fishing Hazard – Large Anchor



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

Position
59°03.027'N 000°18.516'W



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

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

Seabed Activity

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

Scapa Water Injection – Pipeline Replacement Operations

Offshore Campaigns upcoming;

- Pipelay operations to be undertaken by Skandi Acergy from circa 6th to 10th November. Pipelay will be from Scapa Template to CASWI Template 500m South of existing Flexible Pipeline.
- Pipeline tie-in operations to be undertaken by Seven Falcon circa 26th to 6th December.



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

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

Seabed Activity

First Published: 20 October 2016 | Latest Update: 01 November 2016

Beatrice – Pre-Decommissioning Survey

The Fugro operated Skandi Carla is currently located at the Beatrice field conducting a pre-decommissioning survey of the Beatrice facilities and associated wind turbines. The workscope is currently scheduled to last until the 18th of November. The following activities are taking place within this workscope:

- 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 within the 500m zones at the Beatrice Alpha, Beatrice Bravo and Beatrice Charlie installations
- Debris survey within the 500m zones at 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

Please note all landfall worksopes for the Dunbeath power cable and Shandwick Bay MOL (PL16) have been completed

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

Edradour / Glenlivet Field Development – Construction Activities

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

MV Genesis (BF505), Call Sign: MSDK3, is acting as guard vessel part way between Edradour & Edradour PLEM at the following location: 60° 55.39' N 02° 23.73' W
 MV Karen Ann II (FR559), Call Sign: MADQ7, 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

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.
Shallow geotechnical borehole drilling	Fugro Bucentaur C6SU4	59°34.489'N 01°07.925'E 59°35.270'N 01°08.726'E	November for 7 – 10 days	Three boreholes at (or close to) each of the stated locations

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

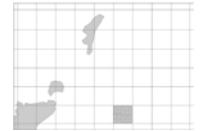
From 15th July 2016 Total Norway will have a new 500m radius safety zone at the STL buoy centred on the following location: 60° 29.87'N 02° 04.42'E



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

Telford Piggings 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 2nd September 2016.

For further information: : Ian Murphy, Tel: +44 (0)1224 371733 email: 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

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

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

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

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

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@nexencooc Ltd.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

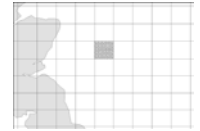


Key Coordinates	
57°27.068'N 01°23.214'E	Montrose BLP (500m Safety Zone)
57°25.167'N 01°13.804'E	Cayley Drill Centre (500m Safety Zone)
57°25.924'N 01°17.332'E	44" Langed Crossing – located between Montrose BLP and Cayley Drill Centre– Fishing Hazard stay clear (concrete mattresses)
57°26.671'N 01°20.804'E	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

Catcher Area – Development Project

Subsea construction activities on behalf of Premier Oil UK Limited on the Catcher Area Development (including the Catcher, Burgman and Varadero fields) located in block 28/9a of the UKCS 56°46.200'N 00°42.783'E



Seabed Activity

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:	56°48.366'N 00°42.258'E
Varadero Drilling Template 2:	56°48.369'N 00°42.337'E
2 x drilling template structure at Catcher drill centre	
Catcher Drilling Template 1:	56°46.277'N 00°46.299'E
Catcher Drilling Template 2:	56°46.321'N 00°46.296'E
2 x drilling template structure at Burgman drill centre	
Burgman Drilling Template 1:	56°44.542'N 00°40.640'E
Burgman Drilling Template 2:	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) 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.
- 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.
- Ongoing works
Installation works are continuing with Tideway vessel "Seahorse" providing rock dump protection over risers and umbilicals within the STP 500m zone. Diving operations from Subsea 7 DSV "Seven Osprey", are also continuing spool and jumper installations at the Catcher drill centre. Work for the 2016 construction campaign is expected to be complete early in November.
- Guard Vessel
A Scottish Fishermen's Federation guard vessel is monitoring the STP Buoy location.

Drilling

The ENSCO 100 Drilling Rig is currently on location at the Varadero Drilling Template #1 position (coordinates of Drill Centres above) and will remain at this location until April 2017.

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

In April 2017, the ENSCO 100 Drilling Rig will move to Burgman Drilling Template #2 for approximately 140 days.

Wave-Rider Buoy

The wave rider buoy previously deployed within the Catcher Area Development has been removed.

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

Janice, James and Affleck Fields – Decommissioning

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

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

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

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

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

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



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 www.maerskoil.com



Notice to Fishermen

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

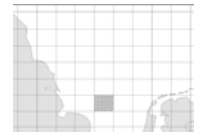
Fishing Hazard – 6 tonne elastomer buoy



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

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

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 coordinates, 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

Deployment of Buoys

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

Ramsgate Kent – Metocean Seabed Frame Deployments

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



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

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

For further information, Kevin Ransom, Partrac Ltd, Tel: 07810 055 685 email: kransom@partrac.com

Deployment of Buoys

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

Ramsgate Kent – Metocean Seabed Frame Deployments

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



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

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

For further information, Kevin Ransom, Partrac Ltd, Tel: 07810 055 685 email: kransom@partrac.com

Liverpool Bay – Drilling Operations

Petrofac drilling operations

Drilling Rig/Ship	Installation / Well No	Position	Start / Finish	Duration
Irish Sea Pioneer	Douglas Field 110/13D	53°32.234'N 003°34.781'W	11/11/16	33 Days



For further information: Alec Townley, Petrofac, Tel: +44 1352 842353 alec.townley@petrofac.com

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 5th/7th 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 <http://www.sams.ac.uk>

Area 1 Rig List

Latest Update: 31 October 2016

MOVEMENT	RIG	POSITION	MOVEMENT	RIG	POSITION
New	Sedco 712	58°02.00'N 00°43.70'E		Safe Scandinavia	60°41.90'N 02°55.90'E
	Blackford Dolphin	58°18.10'N 01°42.40'E		Flotel Victory	60°44.30'N 02°29.40'W
	Maersk Integrator	58°34.30'N 01°41.80'E		COSL Promoter	60°46.20'N 03°36.10'E
	Deepsea Atlantic	58°50.00'N 02°32.90'E		Songa Equinox	60°49.80'N 03°34.20'E
	Rowan Viking	58°50.60'N 02°14.90'E		Stena Don	60°50.70'N 03°37.60'E
New	Ocean Valiant	59°20.30'N 01°36.40'E		West Epsilon	60°51.20'N 02°38.50'E
New	Wilphoenix	59°36.00'N 01°19.20'E	New	Scarabeo 5	60°52.10'N 02°38.50'E
	Transocean Leader	59°53.90'N 01°16.90'E		West Elara	61°02.30'N 02°20.30'E
	Transocean Spitsbergen	60°12.00'N 03°51.70'W	New	Ocean Guardian	61°11.70'N 00°43.70'E
	Deepsea Aberdeen	60°20.00'N 04°06.00'W		Borgland Dolphin	61°13.30'N 03°26.40'E
New	Songa Delta	60°28.10'N 02°39.20'E		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

Area 2 Rig List

Latest Update: 31 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		EnSCO 100	56°48.40'N 00°42.30'E
	Seafox 5	55°46.10'N 04°38.90'E		Rowan Gorilla 5	56°57.55'N 01°48.33'E
	EnSCO 121	55°52.90'N 04°14.00'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	New	Ocean Patriot	57°46.60'N 01°46.20'E

Area 3 Rig List

Latest Update: 31 October 2016

MOVEMENT	RIG	POSITION	MOVEMENT	RIG	POSITION
	Seafox 4	53°03.20'N 02°11.30'E		EnSCO 122	53°58.00'N 04°27.60'E
	590021	53°14.00'N 03°14.50'E		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
	EnSCO 92	53°23.90'N 02°14.00'E		EnSCO 80	54°36.00'N 02°11.80'E
	GMS Endurance 6101	53°32.00'N 02°15.30'E		Seafox 7	54°36.00'N 02°11.80'E
New	Paragon B391	53°43.00'N 02°51.30'E			

Area 5 Rig List

Latest Update: 31 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 WestDrill Centre

Anchor No.	Anchor Position	Surface Buoys	Anchor Position	Surface Buoys
1	60°22.434'N 004°09.270'W	60°22.656'N 004°07.734'W	5	60°23.358'N 04°02.580'E
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 WestDrill Centre

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

Glen Lyon – FPSO



Anchor No.	Position	Anchor No.	Position	Anchor No.	Position
Rig	60°21.383'N 04°04.071'W	7	60°20.531'N 04°03.269'W	14	60°21.054'N 04°05.849'W
1	60°21.811'N 04°02.375'W	8	60°20.516'N 04°03.331'W	15	60°21.084'N 04°05.872'W
2	60°21.779'N 04°02.349'W	9	60°20.506'N 04°03.393'W	16	60°22.223'N 04°04.934'W
3	60°21.755'N 04°02.298'W	10	60°20.493'N 04°03.449'W	17	60°22.236'N 04°04.873'W
4	60°21.720'N 04°02.297'W	11	60°20.955'N 04°05.765'W	18	60°22.253'N 04°04.808'W
5	60°21.691'N 04°02.274'W	12	60°20.987'N 04°05.792'W	19	60°22.264'N 04°04.737'W
6	60°20.534'N 04°03.198'W	13	60°21.019'N 04°05.824'W	20	60°22.278'N 04°04.675'W

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

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		

Borgsten Dolphin – At Invergordon anchorage #4

Offhire from TEPUK but final position published.

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

West Phoenix – At Invergordon Anchorage

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

Anchor No.	Position	Anchor No.	Position	Anchor No.	Position
Rig	57°42.560'N 03°52.550'W	2	57°43.150'N 03°54.140'W	4	57°43.720'N 03°51.690'W
1	57°42.140'N 03°54.500'W	3	57°43.710'N 03°53.420'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
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
Baker Hughes Wireline Ocean Valiant V7EB7		59°20.232'N 001°36.301'E	9	20/10/2016 - 28/02/2017 For 1 Day
Fugro Survey Ltd Fugro Searcher 3EUY6 Fugro Galaxy C6YY4		58°17.482'N 000°49.120'E 58°22.458'N 000°52.901'E	15	19/10/2016 - 20/12/2016 For 5 Days
Fugro Searcher Fugro Searcher 3 EUY6		58°19.195'N 000°51.700'E 58°16.503'N 000°51.862'E 58°16.416'N 000°46.753'E 58°19.108'N 000°46.584'E	15	14/10/2016 - 14/12/2016 For 7 Days
Gardline Geosurvey Limited Ocean Reliance J8B2707		59°35.849'N 001°39.467'E 59°35.932'N 001°47.967'E 59°31.623'N 001°48.121'E 59°31.540'N 001°39.638'E	9	23/09/2016 - 30/04/2017 For 4 Days
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
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 209; 1; 5; 6; 7; 12; 13	12/08/2015 - 30/11/2016 For 90 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 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
Subsea 7 Subsea Viking LJLL		60°18.834'N 000°01.121'E 60°25.606'N 000°02.114'E 60°32.377'N 000°03.113'E 60°39.015'N 000°05.757'E 60°44.935'N 000°12.423'E 60°44.512'N 000°12.870'E 60°38.554'N 000°06.356'E 60°31.896'N 000°03.918'E 60°25.124'N 000°02.916'E 60°18.353'N 000°01.921'E 60°12.063'N 000°00.135'E 60°12.010'N 000°00.992'E 60°49.780'N 000°21.151'E 60°49.552'N 000°21.885'E 61°13.053'N 000°44.978'E 61°13.035'N 000°41.108'E 61°12.999'N 000°44.979'E	61°12.981'N 000°41.109'E 61°11.261'N 000°43.144'E 61°12.978'N 000°44.808'E 61°11.238'N 000°43.245'E 61°12.955'N 000°44.909'E 61°15.461'N 000°49.508'E 61°15.065'N 000°49.867'E 61°14.667'N 000°48.204'E 61°14.151'N 000°46.810'E 61°13.498'N 000°45.803'E 61°13.236'N 000°45.537'E 61°13.192'N 000°49.455'E 61°12.761'N 000°49.434'E 61°12.818'N 000°44.316'E 61°13.702'N 000°45.016'E 61°14.461'N 000°46.190'E 61°15.038'N 000°47.748'E	17/05/2016 - 31/12/2016 For 7 Days
Fugro GeoConsulting Ltd MV Bucentaur - C6SU4 MV Gargano - VSMW5 Greatship Manisha - 9V7823		59°26.229'N 001°32.632'E 59°26.264'N 001°35.804'E 59°24.648'N 001°35.871'E 59°24.613'N 001°32.701'E	9	01/05/2016 - 31/12/2016 For 3 Days
Fugro GeoConsulting Ltd MV Bucentaur - C6SU4 MV Gargano - VSMW5 Greatship Manisha - 9V7823		59°36.916'N 001°18.301'E 59°36.956'N 001°21.490'E 59°35.341'N 001°21.569'E 59°35.300'N 001°18.382'E	9	01/05/2016 - 31/12/2016 For 3 Days
Fugro GeoConsulting Ltd MV Bucentaur - C6SU4 MV Gargano - VSMW5 Greatship Manisha - 9V7823		59°27.678'N 001°35.536'E 59°27.711'N 001°38.711'E 59°26.095'N 001°38.776'E 59°26.062'N 001°35.603'E	9	01/05/2016 - 31/12/2016 For 3 Days
Fugro GeoConsulting Ltd MV Bucentaur - C6SU4 MV Gargano - VSMW5 Greatship Manisha - 9V7823		59°23.121'N 001°38.404'E 59°23.153'N 001°41.572'E 59°21.537'N 001°41.634'E 59°21.505'N 001°38.469'E	9	01/05/2016 - 31/12/2016 For 3 Days
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	211; 3; 9	25/02/2016 - 30/11/2016 For 90 Days

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

Area 2 Survey List

Latest Update: 03 November 2016

Company & Vessels	Towed Cable Length & Depth	Area Covered 1 (inc Quod Blocks)	Area Covered 2 (inc Quod Blocks)	Duration
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
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

Area 3 Survey List

Latest Update: 03 November 2016

Company & Vessels	Towed Cable Length & Depth	Area Covered 1 (inc Quod Blocks)	Area Covered 2 (inc Quod Blocks)	Duration
Fugro Survey B.V Fugro Pioneer C6BH3		54°15.437'N 000°25.045'E 54°17.299'N 002°28.202'E	44	01/12/2016 - 31/01/2017 For 3 Days
Gardline Ocean Researcher		52°20.00'N 001°41.21'E 52°35.00'N 001°51.61'E 52°35.35'N 002°01.89'E 52°20.00'N 002°02.20'E		05/11/2016 - 16/11/2016
Gardline MV Confidante ZQZ15		53°19.055'N 001°07.364'E 53°29.291'N 001°41.672'E 53°24.500'N 001°35.140'E 53°16.095'N 001°02.094'E		01/11/2016 For 2 - 3 Weeks
Horizon Geosciences Ltd Horizon Geobay 3ETG2 Kommandor Stuart MPQ3H		54°02.443'N 000°30.120'E 54°00.361'N 000°26.382'E 54°02.603'N 000°22.815'E 54°04.704'N 000°26.536'E		01/11/2016 For 2 Weeks
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	42; 43; 47; 48	01/10/2016 - 31/07/2017 For 2 Days

21 of 22

		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	
Gardline MV Titan Discovery ZQZ15		50°55.231'N 000°59.672'E 51°00.370'N 001°04.900'E 51°03.741'N 001°11.851'E	01/10/2016 - 01/12/2016
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	

Area 4 Survey List

Latest Update: 03 November 2016

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°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	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 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	15/07/2016 - 30/11/2016 For 90 Days