

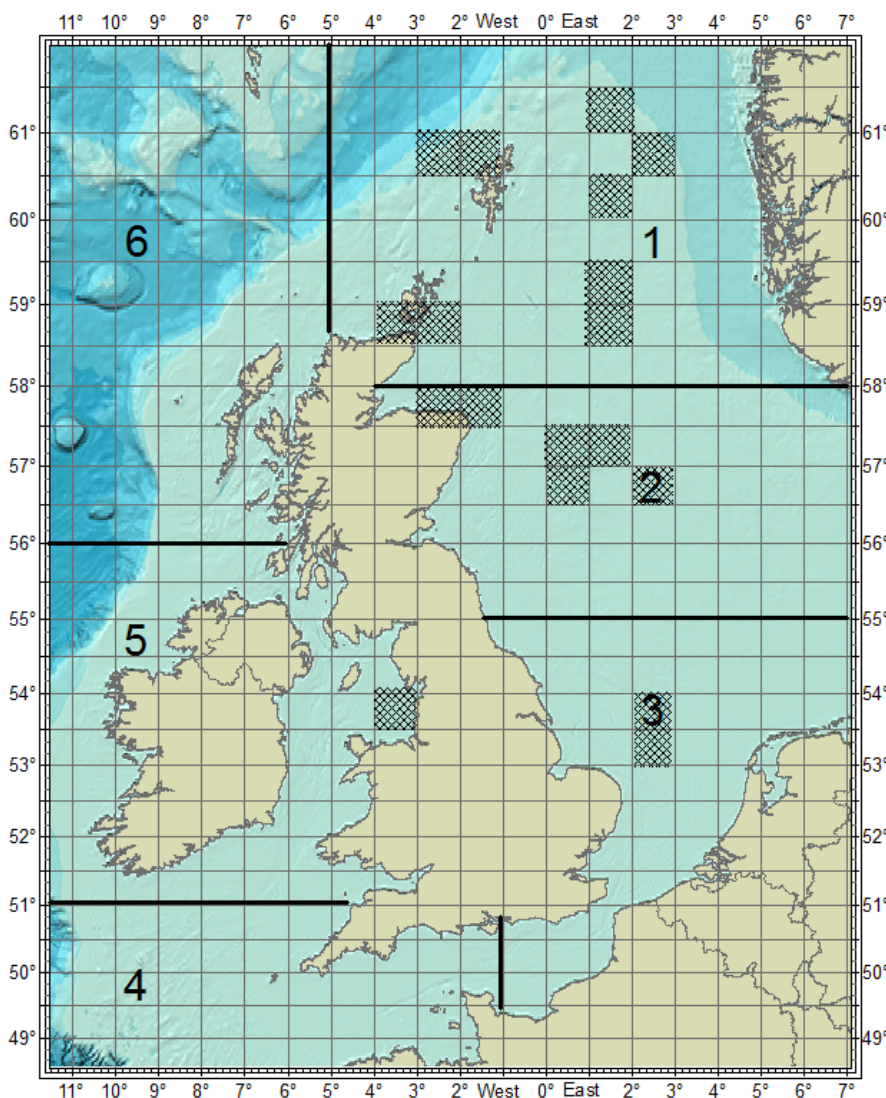
Kingfisher Bulletin

Offshore News

Oil & Gas

09 March 2017 | Issue 05

Shaded blocks indicate activity.



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1. N/A

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Support

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



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 |
| Exposed end of cut pipeline | 60°00.063'N 001°23.757'E | 14 Feb 2017 | nick.strachan@uk.bp.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: 23 February 2017 | Latest Update: 23 February 2017

Fishing Hazard – Chains Recovered



Chains have been recovered

Position: 58°30.315'N 002°04.084'W northeast to 58°31.215'N 002°00.070'W

For further information: Grant Hardie, Subsea 7, Tel: +44(0)1224 527757 email: grant.hardie@subsea7.com

Notice to Fishermen

First Published: 23 February 2017 | Latest Update: 23 February 2017

Fishing Hazard – Exposed end of cut pipeline



The southern end of the decommissioned and rockdumped PL147 10" Gas Pipeline has become exposed and has the potential to provide a snagging hazard.

Position: 61°00.063'N 001°23.757'E

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

Notice to Fishermen

First Published: 23 February 2017 | Latest Update: 23 February 2017

Abandoned Wellhead – Structure Removed from Seabed

Please be advised that the abandoned wellhead below, should be removed from your Kingfisher Yellow Card January 2017.

| Structure | Operator | Position |
|------------|-------------|--------------------------|
| 16/03d-16Z | Enquest PLC | 58°54.645'N 001°26.191'E |

For further information: Marcelle Wynter, DECC, Tel: 0300 0671616 Marcelle.wynter@oga.gsi.gov.uk

Seabed Activity

First Published: 21 May 2014 | Latest Update: 07 March 2017

Edradour / Glenlivet Field Development – Construction Activities

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

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

MV Conquest (BCK364), Call Sign: 2ATH3, 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 |

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

Seabed Activity

First Published: 24 March 2016 | Latest Update: 07 March 2017

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

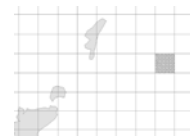
Total Norway have activities solely within the Norwegian Sector for the Martin Linge Project which are included here for information.

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: 23 February 2017 | Latest Update: 07 March 2017

Pelican Field Programme – Well Abandoning

TAQA Bratani is conducting well intervention operations on both the 211/26a-P15 (PU-p10) and 211/26a-P14 (PU-P19) subsea wells in the Pelican field. Remedial work using coiled tubing will be attempted on PU-p10, to reinstate it as an active producer. If unsuccessful, the well will be abandoned. No remedial work will be undertaken on PU-p19 before abandoning. If both wells are abandoned, this would consist of recovering both xmas trees. The wellheads and flowbases will remain on the seabed, their removal will not form part of these abandonment operations. Permanent abandonment cement plugs, in line with the O&GUK guidelines, will be set and tested.

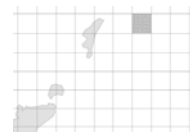
Operations will be conducted by the Awilco WilPhoenix semi-submersible drilling rig, scheduled to commence on the 1st March 2017 on PU-p10, although this may be delayed attributed to continuing operations within the Devenick field. The rig will remain on the well, and skid across to PU-p19, later in March 2017. The field period may be prolonged until the 31st May 2017, dependent on weather conditions or operational factors.

The WilPhoenix is currently located in the Devenick Field UKCS Block 9/29a, conducting a well abandonment.

| Well Number | Location | Start / Finish | Description of Work |
|-------------|--------------------------|-----------------------|---|
| PU-p10 | 61°01.984'N 001°07.740'E | 09/03/17 – 31/05/2017 | Remedial work involving coiled tubing. If unsuccessful, the xmas tree will be recovered and the well abandoned. |
| PU-p19 | 61°02.034'N 001°07.773'E | 30/03/17 – 31/05/2017 | Recover the xmas tree and abandon the well. |

Anchor spread coordinates see Anchor List.

For further information: Justin Hill, TAQA Bratani, Tel:+44 1224 286212, email: justin.hill@taqaglobal.com



Seabed Activity

First Published: 26 January 2017 | Latest Update: 07 March 2017

Devenick Field Programme – Well Abandoning

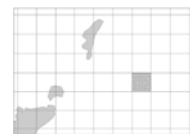


TAQA Bratani is planning to abandon the Devenick E&A (9/29a-1) well in the Devenick field. The operations consist of re-entering the well and fully abandoning it. Operations will be conducted from the Awilco WilPhoenix semi-submersible drilling rig and the work is planned to commence around 30th January 2017 and will remain on the well until 11th March 2017. The field period may be prolonged depending on weather conditions and other factors.

The WilPhoenix is located in the Devenick field UKCS Block 9/29a, awaiting on an appropriate weather window to recover anchors and relocate to Pelican field in the northern North Sea

| Well Number | Location | Start / Finish | Description of Work |
|-------------|--------------------------|-----------------------|--|
| 9/29a-1 | 59°09.851'N 001°37.966'E | 30/01/17 – 11/03/2017 | Permanently abandon the well as per UKOOA abandonment guidelines |

For further information: Derek Harrold, TAQA Bratani, Tel:+44 1224 275557, email: derek.harrold@taqaglobal.com



Rowan Gorilla V jack-up rig move – UKCS Block 3/30

Rowan Gorilla V is currently drilling at Sween at following location with 500m safety zone;

| Location | Coordinates |
|-----------------|-------------------------|
| UKCS Block 3/30 | 60°03.710'N 01°59.130'E |



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

Beryl Field – Callater Development Project – Bundle Tow

Apache North Sea Ltd. are the operator of UKCS license blocks 9/18a, 9/19b and 9/19c, located to the South West of the Beryl Field Platforms, within which the Callater development is located. Apache propose to develop the Callater field via a new bundle system back to the existing Skene bundle manifold, located approximately 3.85km to the East of Callater. From there, production fluids will be transported through the Skene bundle to the Beryl Alpha Riser Access Tower (RAT) for subsequent processing on the Beryl Alpha platform and onward transportation to the St. Fergus gas terminal.



The bundle was successfully launched from Wick and towed from Sinclair Bay to the Beryl Field where it is located as follows:

| Location | Coordinates | Heading |
|-------------------------|--------------------------|-------------|
| Callater Towhead Padeye | 59°26.882'N 001°37.106'E | 119.81 Grid |

After the provisional round of fixing of the Skene Towhead, the provisional position is as follows:

| Location | Coordinates | Heading |
|----------------------|--------------------------|-------------|
| Skene Towhead Padeye | 59°25.899'N 001°40.726'E | 118.54 Grid |

Vessels:

Command Vessel: SUBSEA VIKING – still in field
 Trail Tug: BB WORKER – returned to port
 Lead Tugs: SIEM GARNET, SIEM OPAL – returned to port
 Work Vessel: WHALSA LASS – In field
 DPSV (Ballasting vessel): OLYMPIC TAURUS
 Hazards: All pipelines crossed without incident.

Vessel Mobilisations:

- OLYMPIC TAURUS: 21 Feb 17

Reference Document: Subsea 7 Document: Apache North Sea Limited, Callater Field Development Project: Bundles Tow
 Notification: S7 Reference: ET0962-OPS-00097; ANS Reference: BA-15-M0014-BA-P-Q-87-QP-007-Rev_0

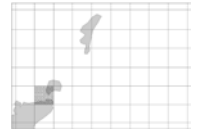
For further information: Steve White, Apache North Sea, Tel: 01224 505370 email: steve.white@apachecorp.com

Pentland Firth – Deployment of ADCP

Deployment of ADCP close to the seabed – up to 10m above seabed. No surface markers in 75m water.

Deployed from 20th May 2017 – October 2017

58°43.570'N 003°14.180'W



For further information: Rory O Hara, Marine Scotland Science, Tel: +44(0)1224 295358 email: R.Murray@MARLAB.AC.UK

Culzean Field Pipelines- Construction Activities

Maersk Oil North Sea UK Limited, Culzean Project, informs mariners hereby that they intend to carry out construction activities with the installation of pipelines within the Culzean Field Development Area (Block 22/25A) and extending into other areas towards the CATS pipeline.



| Pipeline | Length | From | To |
|---|--------|---|--|
| 22" Gas Export Pipeline | 52km | Culzean 500m zone 57°11.475'N 001°54.582'E | CATS Pipeline T5 57°01.760'N 001°12.199'E |
| 6"/10" Condensate Pipeline (PL4107) with 4" Fuel Gas (PL4108) piggybacked | 3.6km | Culzean 500m zone 57°11.475'N 001°54.582'E | Culzean future FSO 500m zone 57°11.729'N 001°57.662'E |

| Activity | Vessel & Call sign | Date / Duration |
|---|--------------------------|----------------------|
| Prelay Survey, Boulder removal & Crossing Construction along the pipelines routings | Normand Oceanic LAXM7 | 4 March for 21 days |
| Installation of Drag anchor initiation wires in Culzean 500m zone | Siem Opal LAXM | 20 March for 3 days |
| Installation of Gas Export and Condensate c/w fuel gas pipelines | Seven Borealis C6YG8 | 15 April for 7 weeks |
| Rock placement on Condensate pipeline | Simon Stevin LXUB | 7 May for 2 weeks |
| Post lay of Gas Export pipeline | Seven Pacific 2DLM3 | 2 June for 5 days |
| Rock placement on Gas Export pipeline | Simon Stevin LXUB | 16 June for 4 days |
| Precommissioning of pipelines | Seven Pacific 2DLM3 | 18 June for 1 week |

For further information: Sietze Akkerman, Tel: +44 (0) 1224 242 461, Email: sietze.akkerman@maerskoil.com

Gannet G Field – Development Activity

Upcoming vessel activity scheduled in the Gannet G Field.



Vessel Name: Polaris
Duration that the vessel will be in field: 6th March, 7 – 10 days
Activity the vessel will be undertaking: Pipelay

Geographical coordinates – vessel will be working between Gannet G Isolation Valve Skid 57°13'.594'N 01°00.501'E and Existing Gannet A Isolation Valve Skid Tie-in Flange 57°11.122'N 00°59.968'E

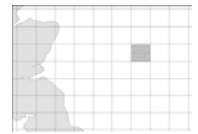
Vessel Name: Saltire
Duration that the vessel will be in field: 8th March, 5 – 7 days
Activity the vessel will be undertaking: Trenching

Geographical coordinates - vessel will be working between Gannet G Isolation Valve Skid 57°13'.594'N 01°00.501'E and Existing Gannet A Isolation Valve Skid Tie-in Flange 57°11.122'N 00°59.968'E

For further information: V Munro, Shell, email: V.Munro@shell.com

Harrier Well – Drilling Operations

Ithaca Energy advises that development drilling operations on the Harrier Well 30/6a-ML1 will be undertaken from EnSCO's self-elevating drilling unit, EnSCO 122. The scheduled spud date for the drilling operations is around 1st March 2017. There will be a number of vessels supporting the drilling activities, including an ERRV and PSVs, these vessels have not been named as yet, an update will be provided when they are identified. There will also be a Stimulation Vessel in close proximity to the drill rig during this campaign; this will be the Big Orange XVIII.



| Drilling Rig/Ship | Installation / Well No | Position | Start / Finish |
|-------------------|------------------------|--------------------------|----------------|
| EnSCO 122 | Harrier Well 30/6a-ML1 | 56°43.564'N 002°05.327'E | 01/03/17 |

For further information: Keith Stewart Tel: 01224 652184 Email: kstewart@ithacaenergy.com

Catcher Area – Development Project

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



Seabed Activity

To date, the following have been successfully installed:

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

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

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

- 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.
- Guard Vessel**
A Scottish Fishermen's Federation guard vessel [MV "Faithful" FR129] is currently monitoring the STP Buoy location.

Drilling

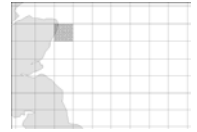
The ENSCO 100 Drilling Rig is currently on location at the Varadero Drilling Template #1 position (coordinates of Drill Centres above) and will remain at this location until the Spring 2017, when it will move to Burgman Drilling Template #1.

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

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

Aberdeen Harbour – Moored Scientific Equipment

Marine Scotland Science have installed 35 moorings in an arc around the mouth of the River Dee in Aberdeen, on the East coast of Scotland, from the mouth of the River Don to Cove Bay.



The moorings hold research equipment that support hydrophone receivers that log the presence of salmon smolts tagged with acoustic ID tag transmitters migrating from the River Dee. Below a table with the as laid locations of these moorings. Deployed on 15th February 2017. The moorings will be removed by the 30th of August 2017.

All of the moorings will have no surface markers and will be located on the seabed, 33 will extend vertically no more than 2 metres, the remaining 2 (No 35 & 36) will have riser lines with scientific instruments at depths greater than 12m (LAT). All will be acoustically released and the entire mooring will be recovered.

All enquiries should be made to the Marine Scotland marine mammal acoustics mailbox (acoustics@scotland.gsi.gov.uk).

| Number | Coordinates | Depth | Number | Coordinates | Depth |
|--------|--------------------------|-------|--------|--------------------------|-------|
| 2 | 57°10.693'N 002°03.994'W | -4 | 20 | 57°08.273'N 001°59.999'W | -40 |
| 3 | 57°10.689'N 002°03.617'W | -7 | 21 | 57°08.072'N 002°00.063'W | -40 |
| 4 | 57°10.549'N 002°03.274'W | -10 | 22 | 57°07.874'N 002°00.162'W | -40 |
| 5 | 57°10.485'N 002°02.918'W | -12 | 23 | 57°07.681'N 002°00.298'W | -40 |
| 6 | 57°10.435'N 002°02.548'W | -14 | 24 | 57°07.498'N 002°00.464'W | -38 |
| 7 | 57°10.359'N 002°02.205'W | -17 | 25 | 57°07.324'N 002°00.662'W | -40 |
| 8 | 57°10.260'N 002°01.876'W | -20 | 26 | 57°07.160'N 002°00.888'W | -40 |
| 9 | 57°10.141'N 002°01.564'W | -23 | 27 | 57°07.010'N 002°01.144'W | -37 |
| 10 | 57°10.125'N 002°01.247'W | -26 | 28 | 57°06.875'N 002°01.423'W | -33 |
| 11 | 57°09.981'N 002°00.984'W | -28 | 29 | 57°06.752'N 002°01.725'W | -34 |
| 12 | 57°09.820'N 002°00.742'W | -30 | 30 | 57°06.646'N 002°02.048'W | -33 |
| 13 | 57°09.651'N 002°00.531'W | -32 | 31 | 57°06.556'N 002°02.387'W | -30 |
| 14 | 57°09.470'N 002°00.356'W | -34 | 32 | 57°06.485'N 002°02.741'W | -27 |
| 15 | 57°09.281'N 002°00.210'W | -35 | 33 | 57°06.436'N 002°03.105'W | -24 |
| 16 | 57°09.086'N 002°00.094'W | -36 | 34 | 57°06.400'N 002°03.476'W | -22 |
| 17 | 57°08.884'N 002°00.019'W | -37 | 35 | 57°06.822'N 002°01.450'W | -33 |
| 18 | 57°08.681'N 001°59.977'W | -38 | 36 | 57°09.550'N 002°00.354'W | -33 |
| 19 | 57°08.476'N 001°59.972'W | -39 | | | |

For further information: Robert Main, Marine Scotland Science, Tel: +44(0)1224 295687 email: Robert.Main@gov.scot

Horne and Wren Fields – Decommissioning

Tullow Oil are to continue with decommissioning activities associated with the removal of the Horne & Wren normally unattended installation in Block 53/03c. The activities will include the removal of the topsides jacket and conductors to below the seabed. This work will be completed using the Rambiz 3000 Heavy Lift Vessel (HLV), and is due to commence the w/c the 13th March 2017.



The Thames Phase 2 Decommissioning Project commenced with the plug and abandon (P&A) of the Horne & Wren Wells and preparatory work for the Removal, Dismantlement and Disposal (RD&D) of the Horne & Wren Platform on 7th June 2016.

| Installation | Block | Position | Activity | Start / Finish |
|--------------|--------|--------------------------|---|---------------------|
| Horne & Wren | 53/03c | 52°54.245'N 002°35.915'E | Removal of topsides jacket and conductors to below the seabed using HLV within existing safety zone | 13/03/17 – 17/03/17 |

For further information: Billy Sandford, Petrofac EPS, Tel +44 (0)1493 416533 email billy.sandford@petrofac.com

Ann Template – Well Abandoning

The vessel MV Seawell will be at the Ann template, at the following location until approximately 14th March 2017.

53°42.933'N 002°03.368'E

The vessel will then make a port call, before traversing to the Audrey 11a-7 well location 53°32.475'N 02°00.539'E around the 15th March 2017, where it will provide dive support for a period of approximately 7 days. It will then return to the Ann field (Ann A4) at the following location until the planned demobilisation date of 28th April 2017:

53°42.933'N 02°03.424'E

This schedule is subject to change depending on operational requirements.



For further information: Lyndsay Arthur, Centrica, Tel: +44(0) 1224 415 150 email: Lyndsay.arthur@centrica.com

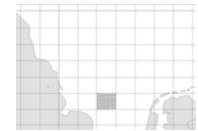
Sean Romeo and Sean Papa – Mooring Buoy Deployment

Please be advised that the below mooring buoy installation as previously notified has been delayed and is now estimated to be the 14th March 2017.

Installation of 2 mooring buoys on sea bed for standby vessel mooring. To be completed by construction support vessel AETHRA (IMO 9181481).

At 2 locations between the Sean Romeo and Sean Papa platforms owned by Oranje-Nassau Energie. Quad/Block: 49/25a

| Location Name | Coordinates |
|---------------|--------------------------|
| Sean Romeo | 53°12.150'N 002°51.133'E |
| Sean Papa | 53°11.083'N 002°49.017'E |



For further information: Linda Murray, Orange-Nassau Energie UK Ltd Tel: 01603 567239 email: linda.murray@onebv.com

Liverpool Bay – Drilling Operations

Petrofac drilling operations

| Drilling Rig/Ship | Installation / Well No | Position | Start / Finish | Duration |
|-------------------|------------------------|--------------------------|----------------|----------|
| Irish Sea Pioneer | Lennox Field 110/13HN | 53°38.782'N 003°28.686'W | 01/03/17 | 30 Days |



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

Deployment of Buoys

First Published: 09 March 2017 | Latest Update: 09 March 2017

West Pembrokeshire – Waverider Buoy

Please be advised that Recording oceanographic equipment will be moored in the vicinity of:

Coordinates

51°50.600'N 005°50.200'W

There will be a Waverider Buoy and a yellow, Class 2 Guard Buoy carrying radar reflectors at the site. Both buoys are fitted with a yellow light exhibiting the sequence FI Y (5) 20s.



For further information: Cefas, Tel: +44(0)1502 562244 www.cefas.defra.gov.uk/wavenet.

Area 1 Rig List

Latest Update: 09 March 2017

| MOVEMENT | RIG | POSITION | MOVEMENT | RIG | POSITION |
|----------|--------------------|-----------------------|----------|------------------------|-----------------------|
| | Blackford Dolphin | 58°18.10'N 01°42.40'E | | Transocean Spitsbergen | 60°15.60'N 03°32.80'W |
| | Maersk Integrator | 58°34.30'N 01°41.80'E | | Deepsea Aberdeen | 60°20.00'N 04°06.00'W |
| | Deepsea Atlantic | 58°47.10'N 02°35.80'E | | Maersk Intrepid | 60°30.30'N 02°00.80'E |
| New | Island Innovator | 58°50.30'N 02°11.80'E | | Safe Scandinavia | 60°41.90'N 02°55.90'E |
| | Rowan Viking | 58°50.60'N 02°14.90'E | | Flotel Victory | 60°44.20'N 02°29.90'W |
| | Maersk Interceptor | 58°55.30'N 02°11.80'E | | Songa Equinox | 60°49.80'N 03°34.20'E |
| New | Wilphoenix | 59°09.90'N 01°37.90'E | | COSL Promoter | 60°52.50'N 03°29.60'E |
| | Transocean Arctic | 59°29.70'N 01°57.90'E | | West Elara | 61°02.30'N 02°20.30'E |
| | Ocean Patriot | 59°32.00'N 01°24.40'E | New | West Phoenix | 61°04.70'N 02°05.20'W |
| | Noble Lloyd Noble | 59°35.40'N 01°03.40'E | | Scarabeo 5 | 61°08.00'N 03°32.00'E |
| | Transocean Leader | 59°53.90'N 01°16.90'E | | Bideford Dolphin | 61°28.00'N 01°59.60'E |
| | Rowan Gorilla 5 | 60°03.71'N 01°59.13'E | | Paul B Loyd Jr | 61°40.10'N 01°22.20'E |

Area 2 Rig List

Latest Update: 09 March 2017

| MOVEMENT | RIG | POSITION | MOVEMENT | RIG | POSITION |
|----------|------------------|-----------------------|----------|--------------------|-----------------------|
| | EnSCO 71 | 55°28.70'N 05°06.50'E | | COSL Rival | 56°41.80'N 02°20.30'E |
| | Maersk Resilient | 55°34.70'N 04°45.60'E | | EnSCO 100 | 56°48.40'N 00°42.30'E |
| | Noble Sam Turner | 55°38.40'N 04°53.10'E | | GSF Galaxy 1 | 57°00.79'N 01°50.37'E |
| | Maersk Guardian | 55°43.30'N 04°48.00'E | | Prospector 5 | 57°00.80'N 01°50.50'E |
| | Seafox 5 | 55°46.10'N 04°38.90'E | | Noble Hans Deul | 57°01.90'N 01°57.30'E |
| | EnSCO 121 | 55°52.90'N 04°14.00'E | New | Maersk Highlander | 57°11.70'N 01°54.80'E |
| | Maersk Innovator | 56°22.60'N 03°15.50'E | | Noble Regina Allen | 57°27.00'N 01°23.20'E |
| New | Ocean Valiant | 56°23.70'N 02°15.30'E | | | |

Area 3 Rig List

Latest Update: 09 March 2017

| MOVEMENT | RIG | POSITION | MOVEMENT | RIG | POSITION |
|----------|--------------------|-----------------------|----------|-------------------|-----------------------|
| | Seafox 4 | 53°03.20'N 02°11.30'E | | | |
| | 590021 | 53°14.00'N 03°14.50'E | | Rowan Gorilla VII | 54°03.30'N 01°02.10'E |
| | Atlantic Amsterdam | 53°15.30'N 00°52.00'E | | Seafox 2 | 54°04.40'N 00°54.90'E |
| New | EnSCO 92 | 53°19.40'N 04°29.50'E | | EnSCO 80 | 54°36.00'N 02°11.80'E |
| | EnSCO 72 | 53°23.60'N 04°12.10'E | | Seafox 7 | 54°36.00'N 02°11.80'E |
| New | Paragon Prospector | 53°28.40'N 04°29.50'E | | EnSCO 101 | 54°51.20'N 04°41.80'E |

Area 5 Rig List

Latest Update: 09 March 2017

| MOVEMENT | RIG | POSITION | MOVEMENT | RIG | POSITION |
|----------|-------------------|-----------------------|----------|-----|----------|
| | Irish Sea Pioneer | 53°37.90'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: 23 February 2017

Wilphoenix – At PU-p10

| Anchor No. | Position | Anchor No. | Position | Anchor No. | Position |
|------------|--------------------------|------------|--------------------------|------------|--------------------------|
| Rig | | 3 | 61°02.379'N 001°54.318'W | 6 | 61°02.167'N 001°51.263'W |
| 1 | 61°01.067'N 001°53.040'W | 4 | 61°02.883'N 001°53.341'W | 7 | 61°01.766'N 001°50.953'W |
| 2 | 61°01.562'N 001°54.069'W | 5 | 61°02.614'N 001°51.616'W | 8 | 61°01.049'N 001°51.501'W |

PBLJ – At the Magnus D6 Well

| Anchor No. | Position | Anchor No. | Position | Anchor No. | Position |
|------------|--------------------------|------------|--------------------------|------------|--------------------------|
| Rig | 61°40.062'N 001°22.068'E | 3 | 61°40.440'N 001°24.036'E | 6 | 61°39.060'N 001°21.804'E |
| 1 | 61°40.980'N 001°21.282'E | 4 | 61°39.690'N 001°24.024'E | 7 | 61°39.684'N 001°20.100'E |
| 2 | 61°40.992'N 001°22.848'E | 5 | 61°39.126'N 001°22.866'E | 8 | 61°40.446'N 001°20.070'E |

Deepsea Aberdeen – As-Laid At Schiehallion West Drill Centre

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

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

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

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°42.489'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 |

Glen Lyon – FPSO



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

Ocean Valiant – Pre-Laid At Bagpuss Well

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

Deepsea Atlantic – Prelayed 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 |

Extra...

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



| Anchor No. | Anchor Position | Laydown Pennant s | Anchor Position | Laydown Pennant s |
|------------|-------------------------|-------------------------|-----------------|-------------------------|
| Rig | 59°53.510'N 01°12.230'E | | | |
| 1 | 59°54.290'N 01°11.580'E | 59°54.380'N 01°11.500'E | 5 | 59°52.760'N 01°12.810'E |
| 2 | 59°54.310'N 01°12.690'E | 59°54.400'N 01°12.740'E | 6 | 59°52.740'N 01°11.590'E |
| 3 | 59°54.760'N 01°13.790'E | 59°53.790'N 01°13.980'E | 7 | 59°53.200'N 01°10.670'E |
| 4 | 59°53.210'N 01°13.700'E | 59°53.170'N 01°13.880'E | 8 | 59°53.820'N 01°10.660'E |

Paragon MSS1 – Telford H2 Well



| Anchor No. | Anchor Position | Laydown Pennant s | Anchor Position | Laydown Pennant s |
|------------|-------------------------|-------------------------|-----------------|-------------------------|
| Well | 58°12.320'N 00°16.720'E | | 7 | 58°11.760'N 00°17.300'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 |
| 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 |
| 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 |
| 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 |
| 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 |
| 6 | 58°12.020'N 00°17.760'E | 58°11.990'N 00°17.880'E | | 58°12.660'N 00°15.550'E |

Area 2

Anchor List

Latest Update: 01 November 2016

West Phoenix – At Invergordon Anchorage

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

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

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 | | |

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Area 1 Survey List

Latest Update: 09 March 2017

| Company & Vessels | Towed Cable Length & Depth | Area Covered 1 (inc Quod Blocks) | Area Covered 2 (inc Quod Blocks) | Duration |
|---|----------------------------|--|----------------------------------|---------------------------------------|
| Fugro Survey Ltd M/V Fugro Meridian C6QR4 | | 58°01.924'N 000°55.685'W 58°01.857'N 000°51.624'W 57°59.703'N 000°51.752'W 57°59.770'N 000°55.809'W | 14 | 15/03/2017 - 31/05/2017 For 3 Days |
| Total E&P UK Limited TBA | 2 m 4m | 58°29.464'N 000°33.369'E | 15 | 01/03/2017 - 30/06/2017 For 1 Day |
| Fugro Gfugro Galaxy | | 58°28.100'N 001°09.766'W 58°28.232'N 001°05.663'W 58°25.950'N 001°09.512'W 58°26.082'N 001°05.412'W | 13 | 27/02/2017 - 14/03/2017 For 3 Days |
| Fugro Survey Ltd M V Fugro Galaxy C6YY4 | 400m 4m | 58°28.100'N 001°09.766'W 58°28.232'N 001°05.663'W 58°25.950'N 001°09.512'W 58°26.082'N 001°05.412'W | 13 | 01/02/2017 - 14/03/2017 For 5 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 |

Area 2 Survey List

Latest Update: 09 March 2017

| Company & Vessels | Towed Cable Length & Depth | Area Covered 1 (inc Quod Blocks) | Area Covered 2 (inc Quod Blocks) | Duration |
|--|----------------------------|--|----------------------------------|--|
| Subsea 7 Normand Oceanic LAXM7 | | 57°01.742'N 001°12.190'E 57°11.475'N 001°54.582'E | 22 | 03/03/2017 - 31/03/2017 For 28 Days |
| Gardline Geo Survey MV Kommandor PBQW | | 56°57.524'N 001°51.119'E 56°58.445'N 001°51.090'E 56°58.461'N 001°52.919'E 56°57.540'N 001°52.946'E | 29 | 24/02/2016 - 30/06/2017 For 3 Days |
| Repsol Sinopec Resources UK Ltd TBC | 1200m 4m | 57°29.686'N 001°26.459'E 57°26.023'N 001°26.616'E 57°25.930'N 001°19.324'E 57°29.593'N 001°19.156'E | 22 | 16/02/2016 - 30/06/2017 For 5 Days |
| Total E&P UK Limited TBA | | 57°00.695'N 001°50.310'E | 22 | 15/02/2017 - 01/08/2017 For 1 Day |
| TBC | 3m 75m | 57°21.228'N 001°20.789'E 57°21.294'N 001°25.173'E 57°23.661'N 001°25.073'E 57°23.594'N 001°20.673'E | 22 | 22/01/2017 - 22/03/2017 For 3 Days |
| Repsol Sinopec Resources UK Ltd MV Kommandor PBQW | 3m 75m | 57°19.444'N 001°18.139'E 57°15.127'N 001°18.340'E 57°15.228'N 001°26.290'E 57°19.544'N 001°26.106'E | 22 | 22/01/2017 - 22/03/2017 For 3 Days |

Area 3 Survey List

Latest Update: 09 March 2017

| Company & Vessels | Towed Cable Length & Depth | Area Covered 1 (inc Quod Blocks) | Area Covered 2 (inc Quod Blocks) | Duration |
|--|----------------------------|--|----------------------------------|---------------------------------------|
| Fugro Engineers BV MV Fugro Bucentaur C6SU4 MV Fugro Pioneer C6BH3 | | 53°10.266'N 002°54.734'E 53°10.292'N 002°53.658'E 53°09.646'N 002°53.615'E 53°09.620'N 002°54.690'E 53°13.971'N 002°49.613'E 53°13.519'N 002°50.309'E 53°13.102'N 002°49.556'E 53°13.528'N 002°48.835'E 53°11.774'N 002°51.706'E 53°11.305'N 002°52.401'E 53°10.905'N 002°51.648'E 53°11.350'N 002°50.941'E | 49 | 22/03/2017 - 01/06/2017 For 7 Days |
| Bibby Hydromap Bibby Tethra 2EGF8 | | 53°02.191'N 002°13.513'E 53°02.191'N 002°13.523'E 53°01.646'N 002°12.628'E 53°02.186'N 002°12.620'E | 49 | 22/03/2017 - 31/05/2017 For 5 Days |
| Fugro Engineers B.V | | 54°14.543'N 002°30.897'E | 44 | 21/02/2017 - 30/04/2017 |

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| | | | | |
|--|-------------|--|----------------|---------------------------------------|
| | | 52°33.210'N 003°34.800'E 54°14.546'N 002°31.818'E 54°15.625'N 002°31.805'E 54°15.621'N 002°30.884'E | | For 5 Days |
| Fugro Survey Fugro Galaxy C6YY4 | 3m 600m | 54°34.381'N 001°18.744'E 54°33.573'N 001°22.067'E 54°30.056'N 001°17.996'E 54°31.896'N 001°14.674'E | 43 | 25/01/2017 - 05/04/2017 For 7 Days |
| Fugro Survey Fugro Galaxy C6YY4 | 3m 600m | 54°29.300'N 001°21.779'E 54°27.193'N 001°25.565'E 53°24.710'N 001°21.502'E 53°26.814'N 001°17.716'E | 43 | 25/01/2017 - 05/04/2017 For 7 Days |
| Gavin Hulmston TBC | | 54°03.244'N 001°01.985'E | 43 | 23/01/2017 - 28/05/2017 For 1 Day |
| Gardline MV Titan Discovery 2HCR3 MV Titan Endeavour 2ELT9 | | 52°05.210'N 001°34.800'E 52°16.860'N 001°37.750'E 52°19.980'N 001°41.080'E 52°19.980'N 001°44.220'E 52°03.210'N 001°39.140'E | | January - March 2017 |
| Polarcus DMCC Polarcus Asima C6XK6 | 6000m / 15m | 54°04.904'N 001°03.830'E 54°04.838'N 001°47.764'E 53°44.071'N 001°47.648'E 53°43.703'N 000°53.830'E 53°53.904'N 000°53.680'E 53°53.753'N 000°15.779'E 53°59.903'N 000°11.829'E 54°02.803'N 000°14.929'E 54°06.937'N 000°15.528'E 54°14.754'N 000°15.378'E 54°14.921'N 001°03.746'E | 42; 43; 47; 48 | 01/10/2016 - 31/07/2017 For 2 Days |

Area 5 Survey List

Latest Update: 09 March 2017

| Company & Vessels | Towed Cable Length & Depth | Area Covered 1 (inc Quod Blocks) | Area Covered 2 (inc Quod Blocks) | Duration |
|---|----------------------------|--|----------------------------------|---------------------------------------|
| Bibby Hydromap Bibby Tethra 2EGF8 | | 53°37.552'N 003°40.389'W 53°32.234'N 003°34.781'W | 110 | 21/02/2017 - 31/03/2017 For 5 Days |