

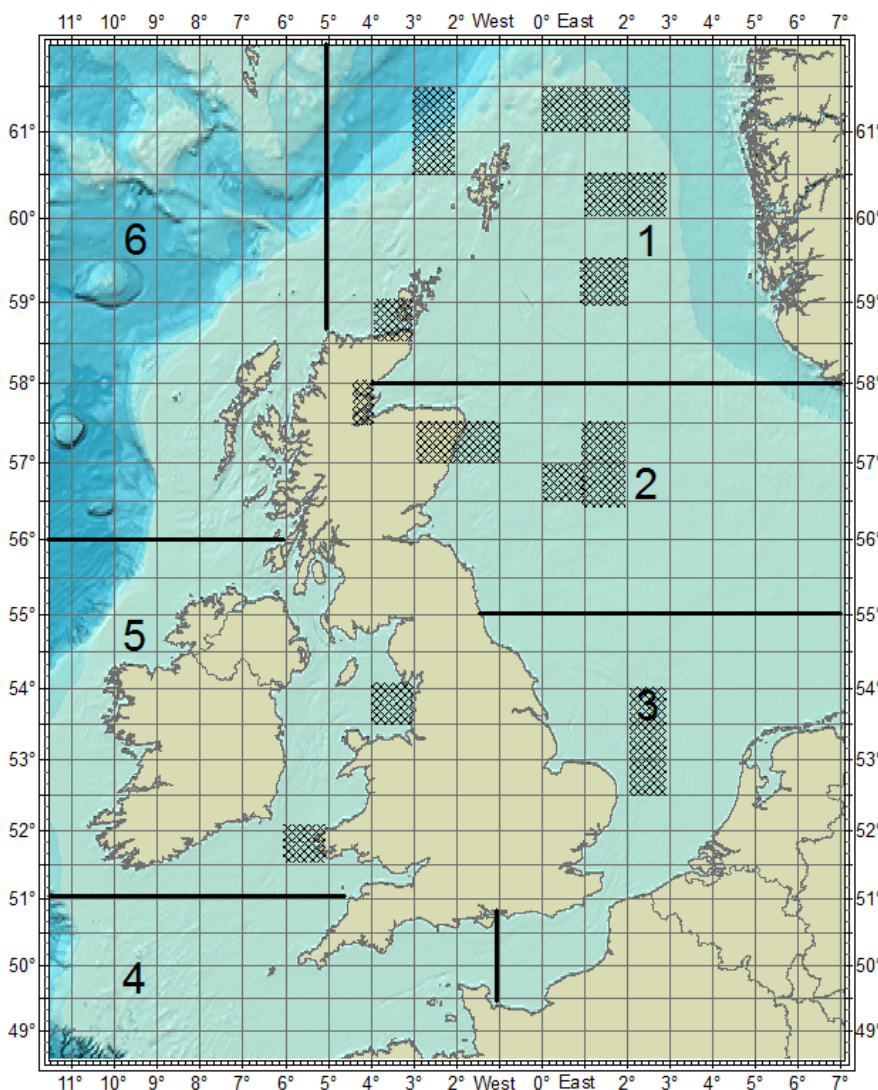
Kingfisher Bulletin

Offshore News

Oil & Gas

23 March 2017 | Issue 06

Shaded blocks indicate activity.



What's inside?

New Hazards (p.3)

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

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1. Seabed Activity
2. Deployment of Buoys

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1. N/A

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1. Seabed 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	

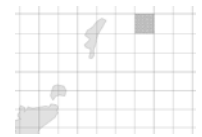
Area 2		Hazard List		
Hazard Type	Position	Issue Date	Contact Details	Map
Installation of Rock Berm 22.5m and a height of 2.8m	57°24.661'N 01°35.731'W to 57°24.675'N 01°39.073'W	23 Mar 2017	nick.strachan@uk.bp.com	

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.

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

Seabed Activity

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

Oseberg Field – Installation Activities

Statoil will in the period from April to October 2017 perform marine activities in the area Oseberg Field Center, Tune/ Delta1, Vestflanken G4 and Delta O/ Delta P templates.

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

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

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

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

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



Vessel	Activity	Start Finish
Normand Mermaid	Prep work at Tune/delta 1, Vestflanken G4, Oseberg Field center and O/P templates. Rock and covers will be removed from Templates and corresponding spools and pipelines	01/04/17 – 05/05/17
Normand Vision	Installation of umbilical from Oseberg A to Oseberg H. Wet-storage of covers and spools	15/05/17 – 15/06/17
Normand Mermaid	Wet-storage of spools and covers	25/07/17 – 01/08/17
Deep Energy	Installation of production pipeline between Oseberg Field Center and Oseberg H, installation of gas injection pipeline between Oseberg H og Tune/ Delta1	31/05/17 – 31/06/17
Olympic Challenger	Lay support and pigging operation	30/05/17 – 30/06/17
Normand Mermaid	Spool installation and tie-in	20/08/17 – 02/09/17
Normand Vision	Wet-storage of covers and spools at Tune and Oseberg Field Centre	20/08/17 – 25/08/17
Hermod	Installation of unmanned wellhead platform (Oseberg H)	01/07/17 – 30/07/17
TBC	Rock installation	19/08/17 – 20/09/17
TBC	Rock Installation	15/10/17 – 20/10/17

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

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

For further information: Precautionary area will be surveilled by Statoil Operasjonssenter; telephone number +47 55 14 32 78 or VHF ch 10

Questions may be directed to Annette Veka, mobile number +47 41 20 23 96.

Western Isles – Development

Dana are planning to undertake a number of DSV diving operations as part of the Western Isles Project Development.



- Installation and tie in of a number of spools at the North Drill Centre (NDC), South Drill Centre (SDC), North Riser Base (NRB), South Riser Base (SRB) and at the TAQA Tern platform.
- Installation and tie in of a number of jumpers at the NDC and SDC.

In addition, Dana are planning to undertake the installation of the north and south Mid Water Arches. The two Mid Water Arches are buoyant structures that are tied to gravity bases, located on the seabed. The gravity bases will be installed on the seabed directly below the Mid Water Arches.

The earliest start date for operations to commence is 1st April. The operations are expected to last April and May. The operations will be undertaken from the following vessels:

- Seven Osprey DSV
- Seven Falcon DSV
- Seven Arctic CSV

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

	Coordinates
NDC	61°13.014'N 00°42.240'E
SDC	61°11.744'N 00°43.673'E
NRB	61°13.026'N 00°44.978'E
SRB	61°12.962'N 00°44.854'E
Tern SSIV	61°16.470'N 00°55.120'E
Mid Water Arches	61°12.918'N 00°45.148'E
Mid Water Arches	61°12.899'N 00°45.111'E

For further information: Nicola Bannigan, Dana Petroleum Ltd, Tel: +44 1224 616170 email: Nicola.bannigan@dana-petroleum.com

Brent Bypass – Vessel Activity

Please note that vessel activity that we have commencing in the Brent Field.

Borealis – 1st April for 7 days – pipelay and structure deployment

Smit barge 2, Buggsy 10, Siem Opal – support for borealis

Subsea Viking – pipeline strength test – 10th april – 6 days

All vessels will be working in the following areas :-



Area	Coordinates
NL-WL PLEM	61°02.046'N 01°41.971'E
Knarr Tee	61°01.251'N 01°41.747'E
NLGP SSIV (5m outside)	61°02.117'N 01°41.093'E
WLGP SSIV	61°02.020'N 01°41.951'E

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

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

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, which had been due to commence on the 1st March 2017 on PU-p10. The rig will remain on the well, and skid across to PU-p19, scheduled to occur in April. The field period may be prolonged until the 31st May 2017, dependent on weather conditions or operational factors.

The WilPhoenix is located in the Pelican field UKCS Block 211/26a, as per the details below. Anchor spread coordinates see

Well Number	Location	Start / Finish	Description of Work
PU-p10	61°01.984'N 001°07.740'E	21/03/17 – 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	01/04/17 – 31/05/2017	Recover the xmas tree and abandon the well.

Anchor List.

For further information: Mike McMahon, TAQA Bratani, Tel:+44 1224 275557, email: Mike.McMahon@taqaqlobal.com

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

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

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

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

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



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

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

Deployment of Buoys

First Published: 12 January 2017 | Latest Update: 23 February 2017

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

Fishing Hazard – Installation of rock berm



Proposed installation of a rock berm for the protection of PL721 (Forties Pipeline System -FPS), will commence on the 16th March

Rockdump (covering pipeline PL721) Block:19/17 &19/18 – between the following coordinates:

57°24.661'N 01°35.731'W to 57°24.675'N 01°39.073'W

The maximum dimensions of the rock berm installed at PL721 are a width of 22.5m and a height of 2.8m.



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

Seabed Activity

First Published: 12 January 2017 | Latest Update: 23 March 2017

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

To date, the following have been installed:

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

Structure	Coordinates
2 x drilling template structures at Varadero drill centre	
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.

- **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 "Consortium" PD174] 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

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.



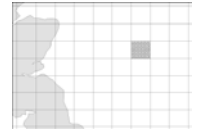
Pipeline	Length	From	To
22" Gas Export Pipeline	52km	Culzean 500m zone 57°11.475'N 001°54.582'E	CATS Pipeline T5 57°01.760'N 001°12.199'E
6"/10" Condensate Pipeline (PL4107) with 4" Fuel Gas (PL4108) piggybacked	3.6km	Culzean 500m zone 57°11.475'N 001°54.582'E	Culzean future FSO 500m zone 57°11.729'N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

Harrier Well – Drilling Operations

Ithaca Energy advises that development drilling operations on the Harrier Well 30/6a-ML1 will be undertaken from Ensko's self-elevating drilling unit, Ensko 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.

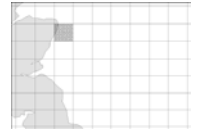


Drilling Rig/Ship	Installation / Well No	Position	Start / Finish
Ensko 122	Harrier Well 30/6a-ML1	56°43.564'N 002°05.327'E	01/03/17

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

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 mooring buoy installation has now been completed and the vessel has left the location.

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
Irish Sea Pioneer	Douglas Field 110/13D	53°32.232'N 003°34.619'W	04/04/17	16 Days



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

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: 20 March 2017

MOVEMENT	RIG	POSITION	MOVEMENT	RIG	POSITION
	Blackford Dolphin	58°18.10'N 01°42.40'E		Deepsea Aberdeen	60°20.00'N 04°06.00'W
	Maersk Integrator	58°34.30'N 01°41.80'E		Maersk Intrepid	60°30.30'N 02°00.80'E
	Deepsea Atlantic	58°47.10'N 02°35.80'E		Safe Scandinavia	60°41.90'N 02°55.90'E
	Island Innovator	58°50.30'N 02°11.80'E	New	Songa Endurance	60°49.80'N 03°34.20'E
	Rowan Viking	58°50.60'N 02°14.90'E		Songa Equinox	60°49.80'N 03°34.20'E
	Maersk Interceptor	58°55.30'N 02°11.80'E		COSL Promoter	60°52.50'N 03°29.60'E
	Transocean Arctic	59°29.70'N 01°57.90'E	New	Wilphoenix	61°02.00'N 01°07.70'E
	Ocean Patriot	59°32.00'N 01°24.40'E		West Elara	61°02.30'N 02°20.30'E
	Noble Lloyd Noble	59°35.40'N 01°03.40'E	New	West Phoenix	61°04.63'N 02°05.28'W
New	Transocean Leader	59°56.90'N 01°15.80'E		Scarabeo 5	61°08.00'N 03°32.00'E
	Rowan Gorilla 5	60°03.71'N 01°59.13'E		Bideford Dolphin	61°28.00'N 01°59.60'E
	Transocean Spitsbergen	60°15.60'N 03°32.80'W		Paul B Loyd Jr	61°40.10'N 01°22.20'E

Area 2 Rig List

Latest Update: 20 March 2017

MOVEMENT	RIG	POSITION	MOVEMENT	RIG	POSITION
	EnSCO 71	55°28.70'N 05°06.50'E		Ocean Valiant	56°23.70'N 02°15.30'E
New	Maersk Resilient	55°31.80'N 05°00.50'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
New	Seafox 5	55°43.00'N 04°44.90'E		GSF Galaxy 1	57°00.69'N 01°50.32'E
	Maersk Guardian	55°43.30'N 04°48.00'E		Prospector 5	57°00.73'N 01°50.41'E
New	EnSCO 121	55°52.90'N 04°14.00'E		Noble Hans Deul	57°01.90'N 01°57.30'E
New	Maersk Gallant	56°21.50'N 02°18.80'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

Area 3 Rig List

Latest Update: 20 March 2017

MOVEMENT	RIG	POSITION	MOVEMENT	RIG	POSITION
	Seafox 4	53°03.20'N 02°11.30'E	New	EnSCO 101	53°49.10'N 04°30.90'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
	EnSCO 92	53°19.40'N 02°14.20'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
	Paragon Prospector	53°28.40'N 04°29.50'E			

Area 5 Rig List

Latest Update: 20 March 2017

MOVEMENT	RIG	POSITION	MOVEMENT	RIG	POSITION
New	Irish Sea Pioneer	53°38.80'N 03°28.60'W			

Rig Move

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

Galaxy I jack-up rig move – Invergordon / Comarty Firth

Please note that in April the Galaxy I jack-up rig will leave the Elgin A Wellhead Platform in the Central North Sea and be towed to and installed at the following location. Please avoid this operation.

Invergordon anchorage No.11 57°41.050'N 004°03.180'W



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

Extra...

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

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°42.497'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

Glen Lyon – FPSO



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

Ocean Valiant – Pre-Laid At Bagpuss Well

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

Deepsea Atlantic – Pre-layed 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

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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			

Area 2 Anchor List

Latest Update: 01 November 2016

Catcher FPSO –



Construction vessels Skandi Skansen and Skandi Neptune working around and extending out approximately 1000m from the future Catcher FPSO

Anchor No.	Position	Anchor No.	Position	Anchor No.	Position
STP Buoy @ Future FPSO	56°46.207'N 000°42.782'E				
1	56°46.573'N 000°42.093'E	5	56°46.457'N 000°43.780'E	9	56°45.713'N 000°42.755'E
2	56°46.602'N 000°42.136'E	6	56°46.423'N 000°43.804'E	10	56°45.719'N 000°42.687'E
3	56°46.630'N 000°42.182'E	7	56°46.387'N 000°43.824'E	11	56°45.728'N 000°42.620'E
4	56°46.655'N 000°42.233'E	8	56°46.350'N 000°43.840'E	12	56°45.739'N 000°42.555'E

COSL Rival – Proposed Mooring at Judy30/7a



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

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

Ocean Patriot – As Laid at Pierce A12 Well



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

Area 1 Survey List

Latest Update: 23 March 2017

Company & Vessels	Towed Cable Length & Depth	Area Covered 1 (inc Quod Blocks)	Area Covered 2 (inc Quod Blocks)	Duration
FairfieldNodal MV Ocean Pearl C6ZW\$ GeoWave Commander LAKY6 Shemarah II 9120889		60°49.801'N 002°27.885'W 60°45.540'N 002°19.945'W 60°42.655'N 002°23.219'W 60°41.091'N 002°28.435'W 60°40.426'N 002°28.680'W 60°39.603'N 002°31.145'W 60°39.858'N 002°33.060'W 60°39.504'N 002°36.420'W 60°41.747'N 002°40.768'W	206	15/04/2016 - 30/09/2017 For 100 Days
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
Gardline Geosurvey Limited MV Vigilant PBNX		60°06.113'N 003°58.565'W 60°03.860'N 003°53.926'W 60°01.542'N 003°58.431'W 60°03.792'N 004°03.069'W	205	27/03/2016 - 14/04/2017 For 14 Days

Area 2 Survey List

Latest Update: 23 March 2017

Company & Vessels	Towed Cable Length & Depth	Area Covered 1 (inc Quod Blocks)	Area Covered 2 (inc Quod Blocks)	Duration
PGS Exploration (UK) Ltd Ramform Vanguard 9188714		57°50.484'N 001°11.982'E 58°01.038'N 001°51.440'E 57°54.300'N 001°57.979'E 57°19.459'N 002°15.040'E 57°05.838'N 001°26.734'E	22; 23	01/04/2017 - 30/09/2017 For 84 Days
Fugro Survey Ltd M/V Fugro Meridian C6QR4		56°43.464'N 000°33.369'E 56°50.948'N 002°15.247'E	30	01/04/2016 - 24/04/2017 For 2 Days
Fugro Fugro Meridian C6QR4		57°09.556'N 001°43.240'E 57°11.172'N 001°43.240'E 57°11.131'N 001°46.216'E 57°09.514'N 001°46.139'E	22	15/03/2017 - 31/05/2017 For 3 Days
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

Area 3 Survey List

Latest Update: 23 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°13.917'N 002°49.631'E 53°13.509'N 002°50.218'E 53°13.157'N 002°49.538'E 53°13.564'N 002°48.951'E 53°11.720'N 002°51.705'E 53°11.323'N 002°52.311'E 53°10.959'N 002°51.650'E 53°11.356'N 002°51.043'E 53°10.236'N 002°53.744'E 53°10.214'N 002°54.641'E 53°09.676'N 002°54.604'E 53°09.697'N 002°53.708'E	49	13/03/2017 - 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 54°14.546'N 002°31.818'E 54°15.625'N 002°31.805'E 54°15.621'N 002°30.884'E	44	21/02/2017 - 30/04/2017 For 5 Days

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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
Gardline Geosurvey Ltd Ocean Reliance HP6391	1300m 3m	54°38.347'N 001°45.134'E	43	19/03/2017 - 30/04/2017 For 0.5 Day

Area 5 Survey List

Latest Update: 23 March 2017

Company & Vessels	Towed Cable Length & Depth	Area Covered 1 (inc Quod Blocks)	Area Covered 2 (inc Quod Blocks)	Duration
Fugro GB Marine Ltd Fugro Seeker 2HCS2		53°52.121'N 003°37.370'W 53°52.126'N 003°36.458'W 53°51.587'N 003°36.450'W 53°51.582'N 003°37.362'W	110	28/03/2017 - 30/04/2017 For 1 Day
Fugro GB Marine Ltd Fugro Seeker 2HCS2		53°56.511'N 003°40.732'W 53°56.514'N 003°40.183'W 53°56.191'N 003°40.178'W 53°56.188'N 003°40.727'W	110	28/03/2017 - 30/04/2017 For 0.5 Day
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