

The Kingfisher Bulletin

Offshore News

OIL AND GAS

04 OCTOBER 2018 | ISSUE 20

Shaded blocks indicate activity.

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1. Notice to Fishermen
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1. Notice to Fishermen
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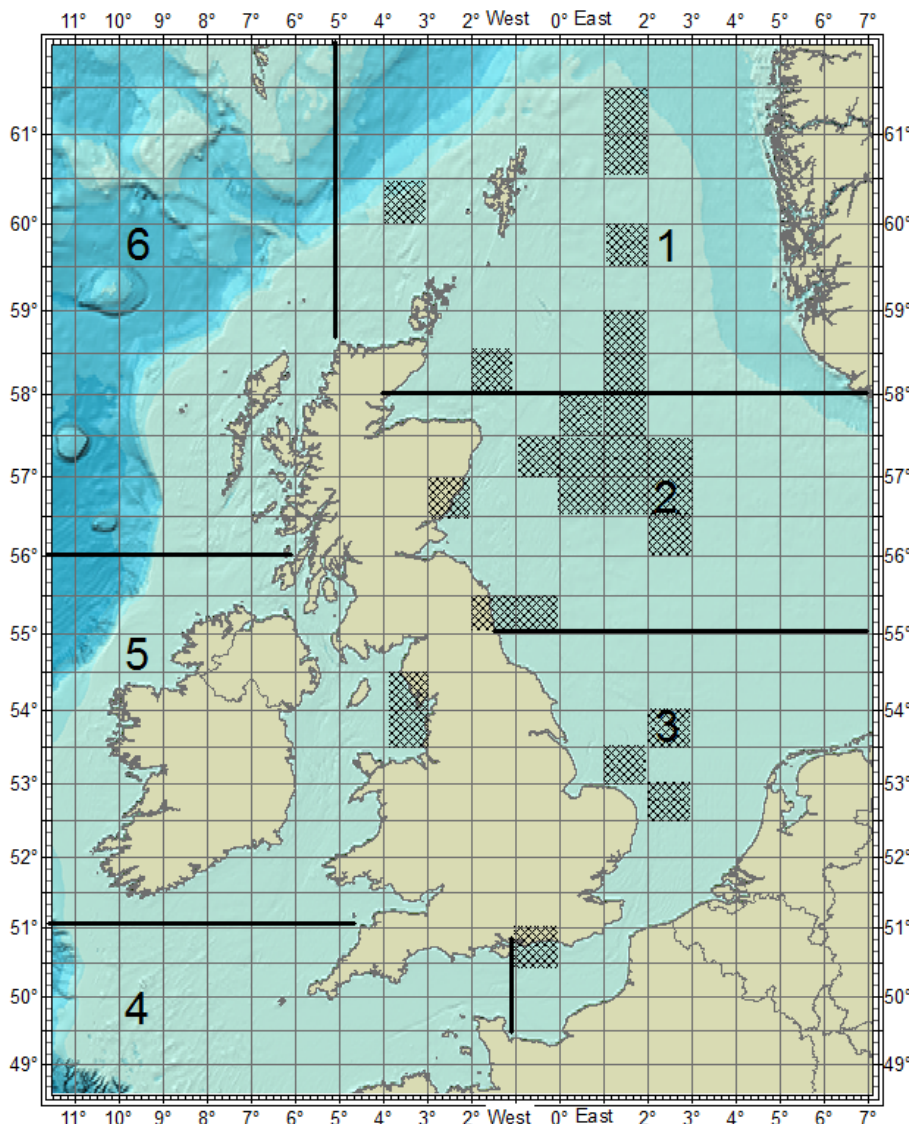
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STAY UPTO DATE - ALWAYS ENSURE YOU HAVE THE LATEST KINGFISHER BULLETIN AND OFFSHORE FISHING PLOTTER DATA ON-BOARD.

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Support

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



For further information, please visit: www.fishsafe.eu/en/contact-us/funding

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.




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New Hazards




Area 1 Hazard List

Hazard Type	Position	Issue Date	Contact Details	Map
Lost Vibro Corer West of Shetland	60°21.430'N 003°51.360'W	20 Sept 2018	Raymond Hall, Tel: 01224 646944 email: R.Hall@sff.co.uk	
New suspended wellhead on seabed (204/10a-5Y)	60°49.083'N 004°09.351'W	20 Sept 2018	Marcelle Wynter, DECC, Tel: 0300 067 1616 email: Marcelle.wynter@ogauthority.co.uk	
Significant free-spans have been identified along the PL1043 Dunbar to Alwyn pipeline	60°38.646'N 01°39.193'E 60°38.713'N 01°39.207'E 60°39.017'N 01°39.267'E 60°39.033'N 01°39.271'E	31 May 2018	David Colliard, email: david.colliard@total.com	



Area 2 Hazard List

Hazard Type	Position	Issue Date	Contact Details	Map
Snagging Hazard at Abandoned Well 30/01c-9	56°50.655'N 002°10.022'E	04 Oct 2018	Nick Strachan, BP email: nick.strachan@uk.bp.com	

Area 3 Hazard List

Hazard Type	Position	Issue Date	Contact Details	Map
Loss of approximately 35m of steel CPT rods 3.6cm Dia	54°45.505'N 001°44.479'E	06 Sept 2018	Dave Scott, SSE. Tel: +44(0)1738 516993 email: david.scott@sse.com	
Wreck FV Sonja Z.19 Least Depth 35.15m, Surround Depths 45.5m Laying 45° to Port.	52°48.410'N 002°19.570'E	06 Sept 2018	Duty Officer, UKHO, Tel: +44(0)1823 353448 email: nawarnings@btconnect.com	
Anchor approx. 3.5m x 1.8m	50°41.147'N 000°17.657'W	28 June 2018	Gordon Bain (Eon Marine Coordination) +44(0)7787241442	

Area 5 Hazard List

Hazard Type	Position	Issue Date	Contact Details	Map
Dropped Ladder 1.5 metres above the seabed and is 50cm wide	53°51.599'N 03°17.774'W	20 Sept 2018	Gavin Scarff, Orsted, Tel: +44 74 6 9377056 email: GAVSC@orsted.co.uk	
Anchor Warrenpoint Channel	54°04.899'N 006°13.472'W	23 Aug 2018	Capt. Catriona Dowling, Tel: +44 (0)28 4177 3381 email: CDowling@warrenpointharbour.co.uk	

Notice to Fishermen

First Published: 20 September 2018 | Latest Update: 20 September 2018

Fishing Hazard – Lost Vibro Corer West of Shetland



Please be advised that the Stirl Explorer managed to break away from the Vibro Corer, recovery failed and it has been left on the seabed in position

60°21.430'N 003°51.360'W



The Vibro corer is believed to have penetrated 3 metres into the seabed and is a hazard to fishing boats as its also standing a few metres off the seabed

For further information: Raymond Hall, SFF, Tel: +44 (0)1224 646944 email: r.hall@sff.co.uk

Notice to Fishermen

First Published: 20 September 2018 | Latest Update: 20 September 2018

Suspended Wellhead – 204/10a-5y



Please be advised of the following Suspended Well

Structure	Operator	Position
204/10a-5Y	Siccar Point Energy E&P Limited	60°49.083'N 004°09.351'W



For further information: Marcelle Wynter, DECC, Tel: 0300 067 1616 email: Marcelle.wynter@ogauthority.co.uk

Notice to Fishermen

First Published: 15 June 2017 | Latest Update: 06 September 2018

Abandoned Wellhead – Plugged and Abandoned

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

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



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

Notice to Fishermen

First Published: 09 August 2018 | Latest Update: 09 August 2018

Fishing Hazard – Pelican Field Xmas Tree 211/26a-P8z



Please be advised that TAQA have installed a Xmas Tree at well 211/26a-P8z in the Pelican subsea field.

Position: 61°01.991'N 001°07.596'E



For further information: Natasha Dolecki, Taqa Bratani Limited, Tel: +44(0)1224 737633 email: Natasha.Dolecki@taqaglobal.com

Notice to Fishermen

First Published: 09 August 2018 | Latest Update: 09 August 2018

Fishing Hazard - Orlando Suspended Wellhead & Tree 3/3b-13Y



Permanent installation - Orlando Suspended. Wellhead and Tree. Presently No Safety Zone in place.

Height 242.81cm, Width 309.94cm, Length 390.94cm, Water Depth 565 ft.

Position: 60°56.671'N 01°33.686'E



For further information: Gavin Kerr, +44 (0)1224 629156, AGR Well Management Ltd. (Well Operator). Email: gavin.kerr@agr.com

Notice to Fishermen

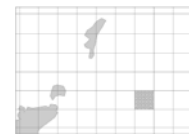
First Published: 19 April 2018 | Latest Update: 19 July 2018

Fishing Hazard – Miller Platform Decommissioned Jacket Footings



The Miller jacket was removed on the 12 July 2018, together with the two temporary nav aid lights. 4 Jacket footings and remains of the cut jacket remain in situ (rising up to 22m from the seabed) and offer a significant snagging risk.

Position: 58°43.304'N 001°24.005'E



For further information: Alistair Bridges, Petrofac Facilities Management Ltd, +44(0)1224 345425, alistair.bridges2@petrofac.com

Notice to Fishermen

First Published: 31 May 2018 | Latest Update: 31 May 2018

Fishing Hazard – Free-spans on Dunbar to Alwyn pipeline



Significant free-spans have been identified along the PL1043 Dunbar to Alwyn pipeline

Position		Length (m)	Height (m)
60° 38.646' N	1° 39.193' E	32	0.9
60° 38.713' N	1° 39.207' E	25	0.8
60° 39.017' N	1° 39.267' E	11	0.8
60° 39.033' N	1° 39.271' E	11	1.0



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

Seabed Activity

First Published: 04 October 2018 | Latest Update: 04 October 2018

Glendronach Field Development – UKCS 206/1, 206/3, 206/4 & 214/30

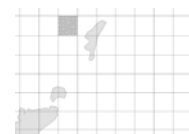


Total E&P UK Ltd is undertaking various subsea construction works in the Edradour, Edradour PLEM, Glenlivet and Laggan 500m subsea Safety zones.

The construction vessel Normand Mermaid, Call Sign: LAXH7, will be working in-field as of October 1st, for approx. 4 weeks.

Glenlivet	UKCS 214/30a	61°04.60'N 02°05.01'W
Edradour	UKCS 206/4a	60°56.04'N 02°14.01'W
Edradour PLEM	UKCS 206/3c	60°54.66'N 02°32.26'W
Laggan	UKCS 206/1a	60°56.67'N 02°53.62'W

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



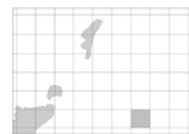
Seabed Activity

First Published: 04 October 2018 | Latest Update: 04 October 2018

BigFoot, PiP, Verbier – Drilling Activity

Drilling activity with the 'West Phoenix' on location at the following locations and approximate dates:
The installed template is of an over-trawlable design to minimise any potential harm to fishing activities.

Well Name	Coordinates	Estimated Start Date	Comments
Bigfoot	58°19.682'N 001°21.663'E	Mid November	Pre-lay moorings to installed approximately 1 week prior to rig arrival – Guard Vessel to be utilised until rig/ERRV arrives
PiP	58°39.194'N 000°50.995'E	Early January	Pre-lay moorings to installed approximately 1 week prior to rig arrival – Guard Vessel to be utilised until rig/ERRV arrives
Verbier	57°56.503'N 000°06.135'W	Mid February	Pre-lay moorings to installed approximately 1 week prior to rig arrival – Guard Vessel to be utilised until rig/ERRV arrives

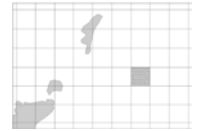


For further information: Euan Simpson, Equinor (Production) UK Limited, Tel: 07557 161705, email: esusi@equinor.com

Gryphon FPSO – Diving Operations

Please be advised that the Bibby Polaris (call sign MYKR6) is engaged in various diving activities until October 20th.

59°21.623'N 001°34.076'E



Please exercise caution in this area.

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

Lancaster Field – Development

The Lancaster Turret Mooring System (TMS) is now installed with the TMS buoy sitting 20m below the sea surface. The buoy is moored in place by 12 wire and chain mooring lines that extend up to 1290m from the TMS buoy to driven piles. The mooring system will remain in this configuration with the buoy at -20m until the FPSO arrives.



Pipeline installation works have been completed. Rockdump protection of the flowlines is scheduled to take place between 3rd – 15th October.

The rockdumping operations will be undertaken by the Simon Stevin

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

Coordinates

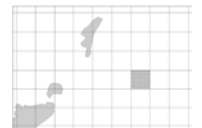
LDC5 Manifold Centre	60° 11.947'N 03° 51.859'W
Aoka Mizu FPSO Turret Centre	60° 10.794'N 03° 52.196'W

For further information: Jo Valentine, Hurricane Energy, T +44 1224 548580 email: Jo.Valentine@hurricaneenergy.com

Beryl Field – Flowline Jumper Installation

Apache North Sea are planning to conduct the installation of production and gas lift flowlines in the Beryl Field.

Production Jumper PL1194 to be installed at base of Beryl Alpha Platform Riser to Buckland RAT Towhead. Production Jumper to be installed between Garten Tree and Buckland Intermediate Towhead. Gas Lift Spools to be installed between Garten Tree and Subsea Tree S33. Controls Jumpers to be installed between Garten Tree and Buckland Intermediate Towhead. Pipeline flushing from Buckland North Drill Centre.



Grout bagging and mattress protection works to above flowlines.

The earliest start date for operations to commence is 23rd September. The operations are expected to last for four weeks.

The operations will be undertaken from the following vessel: Seven Atlantic DSV

Coordinates

Beryl Alpha Platform	59°32.659'N 01°32.051'E
Buckland RAT Towhead	59°32.639'N 01°32.080'E
Garten Tree	59°29.421'N 01°33.322'E
S33 Tree	59°29.389'N 01°33.345'E
Buckland Intermediate Towhead	59°29.395'N 01°33.439'E
Buckland North Drill Centre	59°27.484'N 01°34.347'E

For further information: Patrick Duggan, Apache North Sea, Tel: +44 1224 505479 email: patrick.duggan@apachecorp.com

Seabed Activity

First Published: 20 September 2018 | Latest Update: 25 September 2018

Kingfisher Field – Operations

Please be advised that the WilPhoenix mobile rig is planned to move onto the Kingfisher field 16/08a from the Puffin well 29/5a-5 around the 25th October for an expected duration of 100 days.



Drilling Rig/Ship	Installation / Well No	Position	Start / Finish	Duration
Wilphoenix	16/08a	58°46.283'N 001°29.438'E	25 th October 2018	100 Days

For further information: *Rafaella Madella, Shell UK Limited, Tel: +44 1224888909 email: rafaella.madella@shell.com*

Seabed Activity

First Published: 22 February 2018 | Latest Update: 24 July 2018

Pelican Field Programme – Well Abandonment

TAQA Bratani is conducting well abandonment and drilling operations on a number of wells within the Pelican field.

The planned operations will consist of abandoning the reservoirs and removing the existing Xmas Trees of six wells within the subsea field.

Operations will be conducted by the Paragon MSS1 semi-submersible drilling rig, with operations expected to commence on July 26th and last for six months. The rig will be anchored in a central location (61°02'00.705"N 1°07'45.057"E) and then skidded between wells as required. The Paragon MSS1 is located in the Pelican field UKCS Block 211/26a.

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

Well Number	Location	Start / Finish	Description of Work
PU-p14	61°02.022'N 001°07.700'E	01/03/18 – 28/06/18	Abandon wellbore and drill sidetrack well. Run Xmas tree
PU-p16S1	61°02.046'N 001°07.724'E	28/06/18 – 24/08/18	Reservoir Abandonment. Remove existing Xmas tree
PU-P15 & PU-P15S1	61°02.037'N 001°07.719'E	24/08/18 – 10/10/18	Reservoir Abandonment. Remove existing Xmas tree
PU-P11	61°02.026'N 001°07.766'E	10/10/18 – 09/11/18	Reservoir Abandonment. Remove existing Xmas tree
PU-P21	61°01.997'N 001°07.729'E	09/11/18 – 08/12/18	Reservoir Abandonment. Remove existing Xmas tree
PU-P10BS2	61°01.984'N 001°07.740'E	08/12/18 – 28/01/19	Reservoir Abandonment. Remove existing Xmas tree
PU-P12	61°02.017'N 001°07.760'E	28/01/19 – 26/02/19	Reservoir Abandonment. Remove existing Xmas tree

For further information: *Peter Mayo, TAQA Bratani, Tel: 01224 275556, email: Peter.Mayo@taqaglobal.com*

Seabed Activity

First Published: 15 May 2018 | Latest Update: 20 September 2018

Utgard Field – Development Activity

Equinor and its licence partners will soon start development of the Utgard offshore gas condensate field, which is a trans-boundary field located in the central North Sea in Block 15/8 of the NCS and Block 16/18a of the UKCS. The development will be by means of two or possibly three wells drilled through a 4-slot template located on the NCS approximately 450 metres to the east of the median line.



The installed template is of an over-trawlable design to minimise any potential harm to fishing activities.

Drilling activities have commenced with the Deepsea Atlantic – The anchor pattern extends up to 1.4nm around the Well centre position listed below.

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

Well/Template	Coordinates
	58°21.967'N 001°32.933'E

For further information: *Euan Simpson, Equinor (Production) UK Limited, Tel: 07557 161705, email: esusi@equinor.com*

Decipher Production Ltd – Orlando Field - Development



The Orlando Field is located in Block 3/3b in the Northern North Sea approximately 390km North-Northeast of Aberdeen and 11km North East of the Ninian Central Platform (NCP) in a water depth of 142m. The Orlando field will be developed as a subsea tie-back to the NCP, operated by Canadian Natural Resources International (CNRI).



The subsea pipeline system will comprise an 8" / 12" Pipe in Pipe (PiP) production pipeline connected between the Orlando production well (P1) and the new Subsea Isolation Valve (SSIV) structure situated within the NCP 500m safety zone. The pipeline is connected at either end using rigid tie-in spools. A flexible free-hanging catenary production riser will connect the SSIV structure to the NCP topside production facilities.

There are 2 main pipeline crossings, PL1526 owned and operated by Total, situated approximately mid-way along the pipeline route and PL917 which is owned and operated by CNRI which is located within the NCP 500m safety zone.

The Electric/Hydraulic/Chemical (EHC) umbilical will be formed in 2 parts, a free-hanging catenary dynamic umbilical will connect the NCP topside controls system to the SSIV structure and a second static umbilical will be installed between the SSIV structure and the Orlando production well (P1).

The free-hanging production riser and dynamic umbilical will be anchored to the seabed at their respective Touch Down Points via 'riser bases'. The 'riser bases' are simple steel gravity structures that restrain the free-hanging products. The umbilical will follow the pipeline route offset along the majority of the length by 30m except at either end and at the crossing locations where separation will be reduced to a minimum of 1m.

The pipeline and umbilical will be trenched to approx. 1.6m below the seabed with the untrenched ends, and crossing locations protected by a combination of concrete mattresses and rockdump. The rigid spools and controls jumpers will be protected by concrete mattresses. No protection is required on the production riser or dynamic umbilical as these are well within the NCP 500m safety zone, however concrete mattresses will be placed at intervals for stability purposes only.

Vessel activity in the area is as follows:

Vessel	Activity	Start Date	End Date
Normand Vision	Dredging & Umbilical Installation	09/09/2018	08/10/2018
Normand Pioneer	Umbilical Backfilling	07/10/2018	14/10/2018
Deep Explorer	Diving - Tie-ins etc	27/09/2018	16/10/2018
Stornes	Rock Dumping	21/10/2018	28/10/2018

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

Location	Coordinates
NCP Platform Centre	60°51.376'N 001°28.042'E
Umbilical Riser Base	60°51.398'N 001°28.256'E
Production Riser Base	60°51.446'N 001°28.179'E
SSIV Structure	60°51.487'N 001°28.222'E
PL917 Crossing	60°51.567'N 001°28.216'E
PL1526 Crossing	60°53.844'N 001°30.465'E
Orlando Well (P1)	60°56.671'N 001°33.686'E

For further information: Steve Dempster, Petrex Developments Ltd, Tel +44 1224 452 125, e-mail: sdempster@petrex.co.uk

Azinor Plantain / Agar – Drilling Operations

Azinor Catalyst is planning a drilling operation at the Plantain/Agar location in UK Licence Block 9/14, located in the Northern North Sea. Please see pre-laid Anchor positions in the Anchor List Section.



Drilling Rig/Ship	Installation / Well No	Position	Start / Finish	Duration
Transocean Leader Esvagt Champion	Plantain / Agar	59°37.439'N 001°44.583'E	19/08/2018	50 Days

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

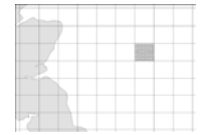
Notice to Fishermen

First Published: 04 October 2018 | Latest Update: 04 October 2018

Fishing Hazard – Abandoned Well 30/01c-9 (Kessog Well)



As part of the Ocean Trust trawl sweep of well 30/01c-9 they snagged approx. 8 metres from the well position. The snagging could be due to cracked concrete around the drill centre that will require remedial work before a clearance certificate can be issued.



Position: 56°50.655'N 002°10.022'E

For further information: Nick Strachan, BP email: nick.strachan@uk.bp.com

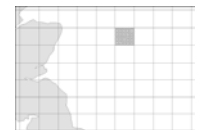
Notice to Fishermen

First Published: 12 July 2018 | Latest Update: 18 September 2018

Fishing Hazard – Freespans Lomond to CATS Riser Platform Pipeline



In preparation for hot tap and tie-in works on the Lomond Platform to CATS Riser Platform 8-inch pipeline (PL781), the pipeline has been excavated and exposed at the following locations:



- 57° 17.537'N, 2° 10.619'E (1 freespan 5m long x 0.5m high)
- 57° 17.755'N, 2° 10.580'E (1 freespan 5m long x 0.5m high)
- 57° 28.484'N, 2° 04.158'E (1 freespan 5m long x 0.5m high)
- 57° 28.687'N, 2° 03.972' E (1 freespan 5m long x 0.5m high)
- 57° 30.146'N, 2° 2.680'E (3 freespans, each 5m long x 0.5m high)

Immediately adjacent to the Lomond platform (within the 500m zone) at 57° 17.215'N, 02° 10.672'E there are 3 further freespans, each 5m long x 0.5m high.

For further information: Emily Eadington, Chrysaor, tel. +44 (0) 1224 086393, email Emily.Eadington@chrysaor.com

Seabed Activity

First Published: 04 October 2018 | Latest Update: 04 October 2018

Culzean Field Development – UKCS 22/25a

Total E&P UK Ltd is undertaking various subsea construction works in the Culzean field. The construction vessel Seven Eagle, Call Sign: ELUB4, will be working in-field as of October 1st, for approx. 3 weeks.

The diving support vessel Seven Pelican, Call Sign: C6RE7, will be working in-field as of September 12th, for approx. 6 weeks.



Culzean FSO	UKCS 22/25a	57°11.73'N 01°57.66'E
Culzean PLEM	UKCS 22/27b	57°01.76'N 01°12.20'E
Culzean CPF Platform	UKCS 22/25a	57°11.47'N 01°54.58'E

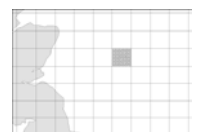
For further information: David Colliard, Total E&P UK Limited, Tel: 01224 298172 email: david.colliard@total.com

Seabed Activity

First Published: 06 September 2018 | Latest Update: 06 September 2018

Puffin Well – Operations

Please be advised that the WilPhoenix mobile rig will be on moved onto Puffin Well 29/5a-5 from Invergordan.

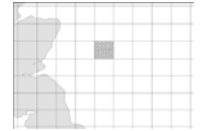


Drilling Rig/Ship	Installation / Well No	Position	Start / Finish	Duration
Wilphoenix	29/5a-5	56°50.150'N 001°50.777'E	01/09/2018	45 – 85 Days

For further information: Jason Bassi, Shell UK Limited, email: Jason.Bassi@shell.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



The FPSO BW Catcher is now in position (turret centre 56°46.207'N and 00°42.765'E). The ERRV / Standby Vessel VOS Famous is monitoring the Catcher Area developments 500m safety zones

Three (3) x 3.5km pipeline bundles have been installed on the seabed between the FPSO location and Drill Centres locations;

Structure	Coordinates
Catcher Drill Centre	56°46.298'N 00°46.277'E
Varadero Drill Centre	56°48.356'N 00°42.300'E
Burgman Drill Centre	56°44.567'N 00°40.623'E

Drilling

The ENSCO 100 drilling rig is currently located at the Burgman Drilling Template 2 (56°44.567'N & 00°40.623'E) through to early October 2018, when the Rig will be demobilising.

Subsea Activity

The DSV Seven Atlantic is scheduled to commence diving operations at the Burgman Drill Centre (56°44.567'N 00°40.623'E) early November 2018 over a period of approximately 6 weeks, finishing approx. mid December 2018.

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

Nexen Glengorm – Drilling Operations

Nexen Petroleum UK Limited is planning to drill at the 22/21c-M (Glengorm) location in the UK Central North Sea.

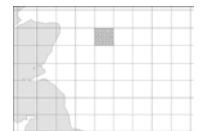


Drilling Rig/Ship	Installation / Well No	Position	Start / Finish	Duration
Paragon Prospector 5 ERRV: Esvagt Capri	Glengorm 22/21c-M	57°10.644'N 001°07.066'E	20/08/2018	146 Days

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

Nelson Field – Flexibles, Umbilicals & Structure Installations**Global Symphony (Global Offshore) – Infield 18/07/18 – Depart Field 25/07/18**

- Installation and burial of 6km long power cable between Nelson Platform and Nelson South manifold.

**Bibby Polaris (Bibby Offshore) – Infield 31/08/18 – Depart Field 09/09/18**

- Installation of UTA protection structures
- Relocation of UTAs from lay operation
- Recovery of redundant control jumpers
- Installation of new control jumpers
- Commissioning support

The Vessels will be working the following locations within the Nelson Field:

Location	Coordinates
Nelson Field - Platform	57°39.734'N 001°08.640'E
Nelson South Satellite - Manifold	57°36.961'N 001°11.405'E
Tie-in Skid	57°39.668'N 001°08.819'E

For further information: Victoria Munro, Shell UK Limited, Tel: +44 1224 887804 email: v.munro@shell.com

Deployment of Buoys

First Published: 23 August 2018 | Latest Update: 23 August 2018

North Sea Central & Southern – Wave Glider Buoy

A Wave Glider for oceanographic research will be operating in UK waters in the Central and Southern North Sea between the UK coast and the UK/Netherlands border.



The instrument (ca. 3m long x 0.6m wide) travels slowly on the surface under wave power. It is fitted with an orange flag, all-round white light and Radar Target Enhancer. If discovered before 15th October 2018, please leave in the water.

Approx North extent 56°40.000'N Approx South Extent 52°25.000'N mainly Centred around : 56°12.000'N 002°00.000'E

For further information: Cefas Lowestoft Lab, Tel: +44(0)1502 562244

Deployment of Buoys

First Published: 20 September 2018 | Latest Update: 20 September 2018

Cromarty Firth Scotland – Passive Acoustic Monitoring Buoy

Mariners are advised that, further to notice UoA/08/2018, the University of Aberdeen has deployed a hydrophone equipped passive acoustic monitoring (PAM) buoy as noted below



57°41.403'N 004°00.356'W

The buoy supports a hydrophone and radio link to shore to provide real-time monitoring of dolphin populations in the vicinity

For further information: Tim Candido Barton, University of Aberdeen, Tel: +44 (0)1381 600548 email: t.r.barton@abdn.ac.uk

Deployment of Buoys

First Published: 20 September 2018 | Latest Update: 20 September 2018

Moray Firth, Cromarty Firth, Inverness Firth – Moorings

Mariners are advised that, further to notice UoA/07/2018, the University of Aberdeen has removed the moorings listed in table 1. Additionally, the University has serviced the moorings listed in table 2, and reinstalled them in their current locations. Moorings listed in table 3 are still to be serviced; these works will take place in late September or early October.



Table 1. Moorings removed.

Name	Coordinates (WGS84 datum)		Characteristics
117	57° 41.155' N	003° 59.883' W	Subsurface.
125	57° 40.866' N	003° 59.667' W	Subsurface.
126	57° 40.925' N	004° 00.391' W	Subsurface.
136	57° 35.479' N	004° 04.264' W	Subsurface.
141	57° 41.430' N	004° 00.146' W	Subsurface.
204	57° 34.551' N	004° 04.905' W	Subsurface.
206	57° 34.081' N	004° 03.672' W	Subsurface.
207	57° 33.903' N	004° 05.034' W	Subsurface.
210	57° 30.657' N	004° 13.030' W	Subsurface.
211	57° 30.339' N	004° 12.102' W	Subsurface.
212	57° 30.125' N	004° 13.389' W	Subsurface.
213	57° 29.873' N	004° 14.884' W	Subsurface.
214	57° 29.816' N	004° 16.191' W	Subsurface.
215	57° 41.078' N	003° 59.172' W	Subsurface.

Table 2. Moorings serviced and returned to their existing location.

Name	Coordinates (WGS84 datum)		Characteristics
1	57° 41.421' N	003° 58.951' W	Surface marked (NB50 buoy, red)
2	57° 35.118' N	004° 05.875' W	Surface marked (NB50 buoy, red)

Table 3. Moorings in situ and still to be serviced.

Name	Coordinates (WGS84 datum)		Characteristics
3	57° 44.073' N	003° 19.776' W	Surface marked (dhan, 12' aluminium & RADAR reflector)
4	57° 41.357' N	003° 05.547' W	Surface marked (NB50 buoy, red)

The moorings support sound recording equipment, and acoustic loggers that record echolocation clicks of dolphins and porpoises

For further information: Tim Candido Barton, University of Aberdeen, Tel: +44 (0)1381 600548 email: t.r.barton@abdn.ac.uk

Notice to Fishermen

First Published: 06 September 2018 | Latest Update: 06 September 2018

Fishing Hazard – Wreck FV Sonja Z.19



Please note position of the Wreck FV Sonja Z.19 Least Depth 35.15m, Surround Depths 45.5m Laying 45° to Port.

Position: 52°48.410'N 002°19.570'E



For further information: Duty Officer, UKHO, Tel: +44(0)1823 353448 email: navwarnings@btconnect.com

Seabed Activity

First Published: 04 October 2018 | Latest Update: 04 October 2018

Eris & Ceres Subsea Wells – Southern North Sea Diving Operations

Diving intervention operations will be taking place on the Eris and Ceres subsea Wells in SNS from 4th October 2018 for approximately 2 weeks. Expected completion by 18th October 2018. Diving Operations will be taking place from the DSV Bibby Sapphire.

The co-ordinates for the operations are listed below:

Location	Coordinates
Eris 47/8c-4	53°49.201'N 00°34.103'E
Ceres 47/9c-11	53°41.355'N 00°43.135'E



For further information: Chris Darbyshire, Spirit-Energy, 01224 411 711 chris.darbyshire@spirit-energy.com

Seabed Activity

First Published: 06 September 2018 | Latest Update: 06 September 2018

Annabel – Well Abandonment

Please be aware the Paragon B391 will be moving from the Alison 4z well location to the Annabel location. The rig will be undertaking well abandonment activities and will be at that location for approximately 65 days.

Field	Well	Position	Start / Finish	Duration
Annabel	48/10	53°40.898'N 001°55.419'E	09/08/2018	65 Days



For further information: Lyndsay Arthur, Spirit Energy, Tel: +44(0) 1224 415 150 email: Lyndsay.arthur@spirit-energy.com

Seabed Activity

First Published: 06 September 2018 | Latest Update: 06 September 2018

Wren Field – Well Abandonment

Please be aware that Petrofac Facilities Management Limited (PFML) will be commencing well abandonment operations in the Thames Area of the Southern North Sea on 15th September 2018 for an estimated duration of 25 days at the below subsea well location, utilising the ENSCO 72 mobile offshore drilling unit.

Field	Well	Position	Start / Finish	Duration
Wren	53/3c-6	52°53.168'N 002°35.606'E	15/09/2018	25 Days



For further information: Mark Ryan, Petrofac, Tel: +44(0)1224 247 000 email: mark.ryan@petrofac.com

Thames Area – Well Abandonment

Following the completion of the below well plug and abandonment campaign, please be aware that Petrofac were unable to remove a section of 30" conductor at the Orwell Exploration well location due to technical difficulties and as such this will be recovered as part of Tullow Oil SK Ltd's (Tullow) Phase 4 Decommissioning Programme due to commence in 2019.



The top hole conductor of the well will remain in situ until this time, protruding approximately 10 feet above seabed (no change from previous status prior to Petrofac operations). The area is subject to a 500m exclusion zone which encompasses the well in question.

Well Number	Coordinates
50/26a-D1	53°08.464'N 03°02.576'E
50/26a-D2	53°08.466'N 03°02.574'E
50/26a-D3	53°08.462'N 03°02.577'E
50/26a-2	53°08.420'N 03°02.481'E

For further information: Mark Ryan, Petrofac, Tel: +44(0)1224 247 000 email: mark.ryan@petrofac.com

Chiswick Field – Drilling Operations

The Noble Hans Deul rig will be mobilising from Nigg to the following Chiswick field location on or around the 20th April 2018. The rig will be undertaking well workover and drilling activities and will be at that location for approximately 260 days.



Drilling Rig/Ship	Installation / Well No	Position	Start / Finish	Duration
Noble Hans Deul	Chiswick Field	53°56.390'N 002°44.828'E	20/04/2018	260 Days

For further information: Lyndsay Arthur, Spirit Energy, Tel: +44(0) 1224 415 150 email: lyndsay.arthur@spirit-energy.com

Notice to Fishermen

First Published: 23 August 2018 | Latest Update: 23 August 2018

Fishing Hazard – Warrenpoint Harbour

 Map Link

Mariners should be advised the a multibeam survey carried out in Warrenpoint Harbour and approach channel has located a ship's anchor of approximately 1.3 m long with a rope protruding from it. The anchor as shown above is at a depth of 3.5m and located on the seabed in the approach channel.



The object was found on the slope of the main channel in position: 54°04.899'N 006°13.472'W

For further information: Capt. Catriona Dowling, Harbour Master, Tel: +44 (0)28 4177 3381 email: CDowling@warrenpointharbour.co.uk

Seabed Activity

First Published: 09 August 2018 | Latest Update: 09 August 2018

Pipeline Spans – Liverpool Bay

 Map Link

In June/July 2018, we have carried out Acoustic Survey (MBES/SSS) and Depth of Burial (SBI) for all of the Liverpool Bay Asset Pipelines.

There were few new Free Span Findings related to two pipelines PL1034 (14" Oil Pipeline) and PL1035 (16" Gas Pipeline).



Position	Length (m)	Height (m)
53°22.225'N 03°22.162'W	4.3	1.3
53°22.228'N 03°22.166'W	6.4	1.0
53°22.230'N 03°22.171'W	8.8	1.0

For further information: Rajesh Kumar, ENI UK – Liverpool Bay Asset, Tel: +44 (0)1352 842200 email: rajesh.kumar@external.eni.com

Area 1 Rig List

Latest Update: 01 October 2018

MOVEMENT	RIG	POSITION	MOVEMENT	RIG	POSITION
	Rowan Viking	58°00.20'N 00°22.70'W		Transocean Leader	59°37.50'N 01°44.70'E
	Rowan Gorilla 7	58°01.70'N 01°42.90'E		Deepsea Aberdeen	60°20.20'N 04°02.10'W
	Ocean Guardian	58°17.60'N 01°50.90'W		Safe Caledonia	60°44.10'N 02°29.40'W
New	Deepsea Atlantic	58°21.80'N 02°32.90'E	New	Songa Endurance	60°48.00'N 03°26.50'E
	Maersk Integrator	58°34.30'N 01°41.80'E	New	Songa Equinox	60°54.90'N 03°31.20'E
	Maersk Intrepid	59°02.20'N 02°13.50'E		Stena Don	60°55.90'N 02°14.10'W
	Ocean Valliant	59°20.40'N 01°37.50'E		COSL Promoter	60°56.60'N 03°34.50'E
New	Ocean Patriot	59°27.00'N 01°37.20'E		Paragon MSS1	61°02.00'N 01°07.80'E
	Deepsea Stavanger	59°30.60'N 02°04.40'E		Deepsea Bergen	61°08.90'N 03°17.00'E
	Safe Boreas	59°35.20'N 01°03.20'E		Transocean 712	61°17.60'N 01°28.30'E
	Noble Lloyd Noble	59°35.40'N 01°03.40'E		Scarabeo 8	64°35.80'N 06°51.30'E

Area 2 Rig List

Latest Update: 01 October 2018

MOVEMENT	RIG	POSITION	MOVEMENT	RIG	POSITION
	Maersk Resilient	55°32.20'N 05°01.90'E		Maersk Interceptor	57°04.30'N 03°03.80'E
	Maersk Guardian	55°42.90'N 04°44.90'E		Safe Scandinavia	57°06.90'N 02°51.60'E
	Noble Sam Turner	55°48.20'N 04°33.60'E		Prospector 5	57°10.70'N 01°06.60'E
	EnSCO 120	56°43.50'N 02°12.50'E		Maersk Highlander	57°11.70'N 01°54.80'E
	EnSCO 100	56°44.60'N 00°40.70'E		EnSCO 101	57°24.30'N 01°35.90'E
	Blackford Dolphin	56°50.10'N 01°42.90'E		Maersk Innovator	57°48.60'N 00°58.30'W
New	Wilphoenix	56°50.20'N 01°50.90'E		COSL Pioneer	57°54.00'N 00°36.50'W
	Rowan Gorilla V	56°58.02'N 01°52.19'E		Paul B Loyd Jnr	57°58.20'N 00°53.70'E

Area 3 Rig List

Latest Update: 01 October 2018

MOVEMENT	RIG	POSITION	MOVEMENT	RIG	POSITION
	GMS Endurance	52°15.00'N 03°30.50'E		Paragon B391	53°40.90'N 01°55.50'E
New	EnSCO 72	52°53.20'N 02°35.70'E		Seafox 1	53°42.20'N 01°09.00'E
	Seafox 4	53°04.60'N 02°11.10'E	New	Paragon C20051	53°49.40'N 04°03.10'E
	590021	53°14.00'N 03°14.50'E		Noble Hans Deul	53°56.40'N 02°44.80'E
	Seajacks Leviathan	53°14.80'N 02°01.40'E	New	Maersk Resolute	54°08.20'N 04°22.70'E
	EnSCO 122	53°36.80'N 01°31.60'E		EnSCO 92	54°12.20'N 02°27.10'E

Area 5 Rig List

Latest Update: 01 October 2018

MOVEMENT	RIG	POSITION	MOVEMENT	RIG	POSITION
New	Irish Sea Pioneer	53°34.00'N 03°27.30'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: 17 September 2018

Deep Sea Atlantic – Utgard

Anchor No.	Anchor Position	Chain End	Anchor Position	Chain End
Well	58°21.967'N 001°32.934'E			
1	58°21.589'N 001°31.228'E	58°21.530'N 001°30.984'E	5	58°22.342'N 001°34.613'E
2	58°22.461'N 001°30.486'E	58°22.510'N 001°30.239'E	6	58°21.572'N 001°34.905'E
3	58°23.109'N 001°31.992'E	58°23.236'N 001°31.882'E	7	58°20.950'N 001°33.768'E
4	58°22.883'N 001°33.586'E	58°23.007'N 001°33.679'E	8	58°21.055'N 001°32.285'E

Ocean Guardian – Proposed West Wick 13/21a

Anchor No.	Position	Anchor No.	Position	Anchor No.	Position
Rig	58°17.606'N 001°50.991'W	3	58°18.392'N 001°51.341'W	6	58°17.328'N 001°49.605'W
1	58°17.347'N 001°52.386'W	4	58°18.316'N 001°50.385'W	7	58°16.819'N 001°50.462'W
2	58°17.925'N 001°52.342'W	5	58°17.864'N 001°49.595'W	8	58°16.895'N 001°51.596'W

Schiehallion Central – As-Laid

The Deepsea Aberdeen rig has returned to Schiehallion Central. The anchors are as-laid and have been connected to the rig. 1 anchor from a previous mooring at Schiehallion West has been left in-field and 1 anchor from the previous mooring at Central has been left in-field.

Anchor No.	Position
Rig	60°20.198'N 04°02.012'W
1	60°19.778'N 04°05.079'W
2	60°20.768'N 04°04.595'W
3	60°21.370'N 04°02.987'W
4	60°21.584'N 04°00.479'W
5	60°20.619'N 03°58.944'W
6	60°19.430'N 03°59.209'W
7	60°18.673'N 04°01.143'W
8	60°18.820'N 04°03.528'W

Schiehallion Central – Abandoned As-Left Anchors

Anchor No.	Position	Laydown Pennant	Chain End
3	60°21.335'N 04°03.099'W	60°21.223'N 04°02.982'W	60°21.046'N 04°02.969'W

Schiehallion West – Abandoned As-Left Anchors

Anchor No.	Position	Laydown Pennant	Chain End
4	60°21.127'N 04°00.926'W	60°21.018'N 04°05.242'W	60°20.891'N 04°05.185'W

Ocean Valiant – Pre-Lay Ballindalloch 9/19a

Anchor No.	Position	Anchor No.	Position	Anchor No.	Position
Rig	59°20.414'N 001°37.393'E	5	59°20.59'N 001°39.37'E	10	59°21.49'N 001°37.16'E
1	59°20.26'N 001°35.27'E	6	59°20.31'N 001°39.42'E	11	59°20.00'N 001°39.22'E
2	59°20.55'N 001°35.27'E	7	59°19.38'N 001°37.18'E	12	59°19.41'N 001°37.89'E
3	59°21.51'N 001°37.70'E	8	59°19.48'N 001°36.53'E		
4	59°21.43'N 001°38.17'E	9	59°20.78'N 001°35.39'E		

Ocean Valiant – Pre-Lay Leadon North 9/19a – soon to be installed

Anchor No.	Position	Anchor No.	Position	Anchor No.	Position
		3	59°35.77'N 001°38.42'E	6	59°34.44'N 001°41.03'E
1	59°34.44'N 001°37.30'E	4	59°35.77'N 001°39.93'E	7	59°33.83'N 001°39.95'E
2	59°35.12'N 001°37.24'E	5	59°35.17'N 001°41.06'E	8	59°33.88'N 001°38.41'E

Transocean Leader – Plantain /Agar

Anchor No.	Position	Anchor No.	Position	Anchor No.	Position
Rig	59°37.439N 001°44.583'E	3	59°37.805N 001°46.108'E	6	59°36.642N 001°43.959'E
1	59°38.065N 001°44.159'E	4	59°37.163N 001°46.090'E	7	59°37.118N 001°43.082'E
2	59°38.057N 001°45.226'E	5	59°36.689N 001°45.224'E	8	59°37.798N 001°43.155'E

– As Laid at Kraken DC4

Anchor No.	Anchor Position	Chain End (Estimated)	Chain Pennant End	Anchor Pennant End
1	59°56.66'N 01°14.79'E	59°56.41'N 01°14.67'E	59°56.36'N 01°14.44'E	59°56.68'N 01°14.97'E
2	59°56.47'N 01°15.99'E	59°56.23'N 01°15.79'E	59°56.12'N 01°15.89'E	59°56.53'N 01°15.88'E
3	59°55.96'N 01°16.58'E	59°55.84'N 01°16.11'E	59°55.71'N 01°16.04'E	59°56.06'N 01°16.57'E
4	59°55.45'N 01°16.18'E	59°55.84'N 01°15.47'E	59°55.94'N 01°15.56'E	59°55.51'N 01°16.30'E
5	59°55.22'N 01°15.22'E	59°55.58'N 01°15.39'E	59°56.03'N 01°15.45'E	59°55.20'N 01°15.04'E
6	59°55.27'N 01°14.04'E	59°55.53'N 01°14.23'E	59°55.55'N 01°14.07'E	59°55.18'N 01°13.90'E
7	59°55.80'N 01°13.43'E	59°55.74'N 01°13.95'E	59°55.63'N 01°14.05'E	59°55.79'N 01°13.26'E
8	59°56.37'N 01°13.72'E	59°56.15'N 01°13.98'E	59°56.02'N 01°13.88'E	59°56.44'N 01°13.55'E

Aoka Mizu FPSO – Lancaster Field

Anchor No.	Anchor Position	Anchor Position
Rig	60°10.79'N 03°52.20'W	
1	60°10.69'N 03°50.98'W	7 60°10.31'N 03°53.19'W
2	60°10.66'N 03°50.99'W	8 60°10.34'N 03°53.24'W
3	60°10.63'N 03°51.01'W	9 60°11.37'N 03°52.62'W
4	60°10.60'N 03°51.03'W	10 60°11.38'N 03°52.56'W
5	60°10.26'N 03°53.09'W	11 60°11.39'N 03°52.50'W
6	60°10.28'N 03°53.14'W	12 60°11.40'N 03°52.44'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

Area 2

Anchor List

Latest Update: 23 August 2018

Blackford Dolphin – Capercaillie Field

Anchor No.	Position	Anchor No.	Position	Anchor No.	Position
Rig	56°50.055'N 001°42.779'E	3	56°50.326'N 001°43.859'E	6	56°49.399'N 001°42.302'E
1	56°50.912'N 001°42.146'E	4	56°49.805'N 001°43.926'E	7	56°49.792'N 001°41.589'E
2	56°50.911'N 001°43.405'E	5	56°49.424'N 001°43.240'E	8	56°50.369'N 001°41.353'E

West Pheonix - Anasuria Cluster – Guillemot A Field – Pre-laying Anchors

Anasuria Operating Company (AOC) are planning to sidetrack an existing well in the Guillemot A field. Prior to mobilising the drilling rig, AOC are planning to pre-lay 8 anchors in the field. The anchors will be deployed in the proposed position and tensioned up to 150MT. Two anchor handling vessels will be mobilising to the field on 2nd May 2018 (at the earliest) with the vessel due on location around the 4th May 2018. The total anchor pre-laying operation is expected to take around 2 days from the date of the vessel arriving in location.

Anchor No.	Anchor Position	Laydown Pennant	Anchor Position	Laydown Pennant
1	57°09.508'N 0°49.603'E	57°09.782'N 0°49.444'E	5	57°10.633'N 0°49.801'E
2	57°09.695'N 0°48.986'E	57°09.949'N 0°49.228'E	6	57°10.409'N 0°50.321'E
3	57°10.031'N 0°48.729'E	57°10.118'N 0°49.346'E	7	57°10.014'N 0°50.599'E
4	57°10.458'N 0°48.882'E	57°10.399'N 0°49.155'E	8	57°09.643'N 0°50.321'E

Culzean – Culzean FSO Anchors

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

Company & Vessels	Towed Cable Length & Depth	Area Covered 1 (inc Quod Blocks)	Area Covered 2 (inc Quod Blocks)	Duration
Hurricane Energy Plc GEOxyz Geo Ocean III LXGP	1200m 4m	60°08.925'N 004°06.471'W 60°06.017'N 004°06.374'W 60°05.966'N 004°12.198'W 60°08.874'N 004°12.305'W 60°11.157'N 003°56.545'W 60°06.705'N 003°50.460'W 60°04.885'N 003°55.809'W 60°09.333'N 004°01.900'W	204, 105	02/10/2018 - 31/10/2018 For 14 Days
Gardline MV Kommander MCJO2	1300m 3m	58°15.059'N 001°34.999'W 58°14.368'N 001°22.476'W 58°04.508'N 001°20.411'W 58°04.656'N 001°32.583'W	13	21/09/2018 - 30/10/2018 For 9 Days
Gardline Limited MV Ocean Reliance HP6391		59°20.576'N 001°24.899'E 59°21.410'N 001°33.885'E 59°16.507'N 001°35.622'E 59°15.675'N 001°26.657'E	9	15/09/2018 - 31/10/2018 For 15 Days
Gardline Survey M/V Kommander MCJO2		58°39.158'N 000°50.897'E	15	04/09/2018 - 30/11/2018 For 2 Days
Gardline Survey Ltd M/V Kommander MCJO2		59°19.677'N 001°21.666'E	9	04/09/2018 - 30/11/2018 For 2 Days
Seabird Exploration Multi-Client Ltd Harrier Explorer 3EIE3 Hunter LKUA	12000m 60m	62°11.117'N 003°02.890'W 62°00.795'N 001°21.833'E 61°49.531'N 001°29.356'E 61°21.391'N 001°47.194'E 60°24.466'N 001°58.649'E 60°10.772'N 002°01.369'E 59°57.442'N 002°03.748'E 59°53.792'N 002°04.421'E 59°25.097'N 001°47.079'E 59°17.401'N 001°42.702'E 59°12.819'N 001°41.263'E 58°45.546'N 001°33.405'E 58°25.847'N 001°28.172'E 58°14.735'N 001°39.062'E 57°41.283'N 002°04.413'E 57°29.381'N 002°10.550'E 57°20.479'N 001°53.942'E	57°18.766'N 001°49.809'E 56°28.600'N 000°37.553'W 56°26.863'N 000°48.311'W 56°26.751'N 002°06.512'W 56°35.105'N 002°25.788'W 58°12.436'N 003°08.823'W 58°19.187'N 003°07.793'W 59°11.508'N 002°24.570'W 59°13.841'N 002°22.025'W 60°07.919'N 001°01.827'W 61°43.061'N 003°34.356'W 61°55.103'N 003°36.565'W 62°05.664'N 003°23.978'W 62°11.117'N 003°02.890'W 2,3,8,9,10,11,12,13,14 15,16,19,20,21,22,23,27,28 208,210,211,213,214,217	31/08/2018 - 30/11/2018 For 20 Days
MMT Stril Explorer LAZT7		61°05.510'N 002°39.100'W 61°05.490'N 002°31.320'W 61°00.320'N 002°31.390'W 61°00.340'N 002°39.160'W	214	31/08/2018 - 14/09/2018 For 30 Days
Gardline Survey Ltd Ocean Reliance HP6391	1400m 3m	59°55.117'N 002°09.034'E 59°49.984'N 002°05.867'E 59°56.428'N 002°00.758'E 59°51.261'N 001°57.595'E	10	25/08/2018 - 31/10/2018 For 14 Days
TBC	2m 5m	60°54.166'N 002°18.160'W 60°56.983'N 002°13.044'W 60°56.650'N 002°12.210'W 60°53.800'N 002°17.260'W	206	15/08/2018 - 31/01/2019 For 10 Days
CGG Services S.A Oceanic Vega LCHQ3 Geo Caribbean LADV8	8100m 12m	61°44.688'N 001°01.932'W 61°19.254'N 000°12.106'W 60°30.438'N 002°02.603'W 60°54.677'N 002°50.383'W	206, 207,208, 209, 214	14/08/2018 - 31/10/2018 For 53 Days
MG3 Survey (UK) L:td MV Poseidon TFJC	1200m 2m	58°05.730'N 001°42.971'E 58°02.622'N 001°37.333'E 58°05.605'N 001°31.460'E 58°08.717'N 001°37.097'E	16	10/08/2018 - 15/10/2018 For 7 Days
Axxis Geo Solutions AS Geo Caspian LACW8 Neptune Naiad YBUY2 Havila Fortune C6X05 Pacific Finder POFK	140m 10m	58°50.664'N 001°35.403'E 58°32.764'N 001°30.703'E 58°32.864'N 001°19.503'E 58°50.664'N 001°25.502'E	16	05/08/2018 - 15/11/2018 For 10 Days
Polarcus Polarcus Alima C6XK4 Nordic Explorer C6TU3	8100m	60°51.416'N 002°58.670'W 61°46.345'N 000°55.411'E 61°26.059'N 000°11.961'W 60°26.023'N 002°04.468'W	206, 207,208, 209, 214	01/08/2018 - 15/10/2018 For 60 Days
DeepOcean Eda Flora - LAJW3 MV Fugro Synergy C6XR3		59°54.516'N 001°59.911'E 59°54.547'N 002°04.582'E 59°51.091'N 002°04.678'E 59°51.057'N 002°00.018'E	10	20/07/2018 - 31/10/2018 For 5 Days
Nexen Petroleum UK Limited TBC	1200m 3m	60°25.775'N 003°13.733'W 60°34.933'N 003°13.798'W 60°34.944'N 002°55.183'W 60°25.785'N 002°55.205'W	205, 206	01/07/2018 - 31/12/2018 For 4 Days
PGS Exploration (UK) Ltd Sanco Swift ZDKY8	8050m 25m	58°37.662'N 001°35.230'W 58°37.229'N 000°57.453'W 58°29.785'N 000°56.162'W 58°21.945'N 000°54.777'W 58°22.577'N 002°41.718'W 58°25.107'N 002°40.465'W 58°31.003'N 002°40.353'W 58°32.096'N 002°38.030'W 58°34.557'N 002°32.488'W 58°37.964'N 002°32.032'W 58°37.662'N 001°35.230'W	12; 13; 14	19/06/18 - 31/10/18 For 39 days

Geo xyz bvba Geo Ocean II LHXH	1300m 3m	58°14.486'N 001°32.180'W 58°14.388'N 001°24.008'W 58°10.078'N 001°24.201'W 58°10.176'N 001°32.341'W	13	18/08/2018 - 30/11/2018 For 4 Days
Fugro Fugro Venturer C6CG3	1200m 3m	60°34.984'N 002°47.011'W 60°36.573'N 002°47.365'W 60°45.864'N 002°32.027'W 60°45.825'N 002°27.932'W 60°42.219'N 002°24.514'W 60°36.132'N 002°25.962'W	206	17/06/2018 - 31/12/2018 For 6 Days
Fairfield Nodal Ocean Pearl - C6ZW4 Sanco Star - ZDIT8		58°04.564'N 001°05.249'W 57°51.563'N 000°44.902'W 57°51.907'N 001°05.921'W 58°04.218'N 000°44.106'W	13; 14; 19; 20	12/06/2018 - 31/12/2018 For 60 Days
Schlumberger TBA		61°29.653'N 001°45.383'W	208	01/05/2018 - 31/12/2018 For 0.5 Days
PGS Exploration (UK) Ltd Sanco Swift ZDKY8		58°32.916'N 000°41.580'E 58°33.169'N 001°05.415'E 57°40.649'N 000°44.040'E 57°40.897'N 000°26.214'E 57°31.938'N 000°22.290'E 57°31.984'N 001°01.209'W 58°32.939'N 000°36.390'W 58°32.968'N 000°23.598'W 58°38.976'N 000°21.037'W 58°39.644'N 000°44.314'E	14, 15, 16, 20, 21	15/04/2018 - 31/10/2018 For 152 Days
Gardline Geo survey Ltd Ocean Kommandor PBQW Ocean Observer GHXX	1200m 3m	59°26.867'N 001°37.738'E 59°26.610'N 001°43.004'E 59°21.252'N 001°41.990'E 59°21.509'N 001°36.738'E	9	21/03/2018 - 31/12/2018 For 2 Days

Area 2 Survey List

Latest Update: 04 October 2018

Company & Vessels	Towed Cable Length & Depth	Area Covered 1 (inc Quod Blocks)	Area Covered 2 (inc Quod Blocks)	Duration
Fugro Survey Ltd Fugro Galaxy C6YY4		56°30.434'N 02°08.542'E 56°39.310'N 02°24.154'E	30	28/07/2018 - 30/11/2018 For 1 Day
Fugro Survey Ltd Fugro Galaxy C6YY4		56°46.020'N 001°26.864'E 56°42.248'N 001°26.719'E 56°42.300'N 001°22.138'E 56°41.402'N 001°22.106'E 56°41.476'N 001°15.124'E 56°41.601'N 001°15.128'E 56°41.629'N 001°12.279'E 56°45.402'N 001°12.400'E 56°45.332'N 001°19.267'E 56°45.260'N 001°19.264'E 56°45.253'N 001°19.966'E 56°46.096'N 001°19.996'E	29	28/07/2018 - 30/11/2018 For 12 Days
Fugro Survey Ltd Fugro Galaxy C6YY4		57°10.016'N 02°15.511'E 56°43.514'N 01°42.901'E	23, 29, 30	23/07/2018 - 30/11/2018 For 5 Days
i_TEC 7 Normand Subsea LAW17		60°16.521'N 004°27.197'W 60°17.105'N 004°27.802'W 60°18.089'N 004°23.946'W 60°17.969'N 004°23.822'W 60°19.007'N 004°19.740'W 60°18.661'N 004°19.384'W 60°17.624'N 004°23.466'W 60°17.504'N 004°23.341'W	204	01/11/2018 - 31/12/2018 For 9 Days
Schlumberger		56°43.463'N 002°12.379'E	30	11/10/2018 - 15/11/2018 For 1 Day
Schlumberger		57°10.605'N 001°06.972'E	22	01/10/2018 - 30/06/2019 For 2 Days
Fugro Survey Ltd MV Fugro Galaxy C6YY4	700m 3m	57°30.988'N 001°08.777'E 57°47.646'N 001°18.188'E 57°44.672'N 001°36.342'E 57°28.037'N 001°26.807'E	22	01/10/2018 - 30/11/2018 For 16 Days
Fugro Survey Ltd MV Fugro Galaxy C6YY4	700m 3m	57°30.988'N 001°08.777'E 57°47.646'N 001°18.188'E 57°44.672'N 001°36.342'E 57°28.037'N 001°26.807'E	22	01/10/2018 - 30/11/2018 For 18 Days
Fugro NV Fugro Skandi Carla C6RX4		53°47.565'N 003°34.090'W 54°03.967'N 003°43.913'W 54°04.727'N 003°42.276'W 53°52.495'N 003°26.317'W 53°53.760'N 003°38.953'W	110, 113	10/10/2018 - 01/05/2019 For 30 Days
Seabird Exploration Multi-Client Ltd Harrier Explorer 3EIE3 Hunter LKUA	8000m 15m	55°25.736'N 000°19.998'E 55°24.834'N 000°32.131'E 55°11.018'N 001°20.287'E 55°14.223'N 001°49.410'E 55°14.383'N 001°51.584'E 55°16.942'N 003°04.690'E 55°03.572'N 003°23.909'E 54°43.987'N 003°15.502'E 54°39.806'N 003°11.937'E 54°30.988'N 002°59.785'E 53°40.493'N 003°15.745'E 53°31.924'N 002°43.567'E 54°06.461'N 001°57.752'E 54°05.016'N 001°51.995'E	54°04.584'N 001°36.869'E 54°13.817'N 000°59.107'E 54°18.035'N 000°27.308'E 54°19.345'N 000°21.733'E 54°36.155'N 000°26.473'W 54°49.046'N 000°34.564'W 55°16.035'N 000°17.836'W 55°22.931'N 000°03.945'W 55°25.736'N 000°19.998'E	24/09/2018 - 30/11/2018 For 15 Days

PGS Ramform Atlas C6AX2 Thor Freyja C6B16		57°25.475'N 002°16.174'E 57°27.092'N 002°22.061'E 57°04.483'N 002°42.680'E 56°59.326'N 002°25.298'E 57°29.544'N 002°10.354'E 57°30.015'N 002°11.949'E	22,23,30	20/09/2018 - 31/10/2018
Gardline Geosurvey M/V Kommander MCJ02		57°56.502'N 000°05.937'E	20	04/09/2018 - 30/11/2018 For 2 Days
PGS Exploration (UK) Limited Ramform Atlas C6AX2	8100m 25m	57°30.178'N 002°05.985'E 57°28.672'N 002°07.408'E 57°29.544'N 002°10.354'E 56°59.326'N 002°25.298'E 56°55.457'N 002°12.398'E 56°58.827'N 002°09.283'E 57°21.786'N 001°47.777'E 57°27.464'N 001°42.378'E 57°29.988'N 001°50.825'E 57°31.984'N 001°57.539'E 57°33.541'N 002°02.800'E	22, 23, 30	15/08/2018 - 31/10/2018 For 33 Days
Fugro Survey Ltd MV Fugro Galaxy C6YY4	1300m 3m	56°48.749'N 001°31.639'E 56°53.060'N 001°31.815'E 56°52.959'N 001°39.689'E 56°48.649'N 001°39.498'E	29	12/08/2018 - 30/11/2018 For 4 Days
Fugro Survey Ltd MV Fugro Galaxy C6YY4	1300m 3m	57°07.974'N 002°11.272'E 57°12.283'N 002°11.527'E 57°12.140'N 002°19.466'E 57°07.832'N 002°19.195'E	23	08/08/2018 - 30/11/2018 For 4 Days
PGS Exploration (UK) Limited MV Bravo Sapphire MV Storm West	8050m 25m	57°48.597'N 001°38.793'W 57°46.208'N 001°47.305'W 57°46.147'N 001°52.642'W 57°45.323'N 002°16.713'W 57°47.782'N 002°27.776'W 58°02.415'N 002°58.171'W 58°08.706'N 002°40.983'W 58°10.901'N 002°41.665'W	58°22.503'N 002°08.802'W 58°27.306'N 001°55.494'W 58°25.804'N 001°35.856'W 58°18.961'N 001°36.019'W 58°11.284'N 001°19.039'W 58°07.305'N 001°27.943'W 57°59.424'N 001°10.758'W	09/08/2018 - 31/10/2018 For 74 Days
Shearwater GeoServices Ltd MV Polar Duchess 5BJC3		57°59.027'N 000°47.891'E 57°55.780'N 001°05.202'E 57°33.224'N 000°55.172'E 57°35.554'N 000°37.378'E	21, 22	20/07/2018 - 31/10/2018 For 4 Days
Fugro Survey Ltd Fugro Venturer C6CG3		56°54.073'N 002°22.905'E 57°01.893'N 001°57.228'E	22, 23, 30	01/07/2018 - 30/11/2018 For 5 Days
Enasco Drilling Rig Contract Enasco 101		57°24.307'N 001°35.904'E		17/06/2018 - 15/10/2018 For 13.5 Day
Gardline Geosurvey Ltd MV Ocean Kommandor PBQW Sea Explorer C6NG6		57°19.242'N 001°37.327'E 57°17.775'N 001°42.500'E 57°14.904'N 001°39.865'E 57°11.521'N 001°45.451'E 57°09.441'N 001°47.017'E 57°07.265'N 001°37.481'E 57°15.200'N 001°33.264'E	22	21/03/2018 - 31/12/2018 For 3 Days

Area 3 Survey List

Latest Update: 06 September 2018

Company & Vessels	Towed Cable Length & Depth	Area Covered 1 (inc Quod Blocks)	Area Covered 2 (inc Quod Blocks)	Duration
Fugro Survey Limited Skandi Olympia C6XY8 Fugro Valkyrie 2BWA9 or Fugro Seeker 2HCS2		53°08.532'N 001°39.721'E 53°04.626'N 001°55.600'E 53°00.862'N 001°32.305'E 52°58.587'N 001°50.850'E 52°58.541'N 001°36.046'E 52°53.094'N 001°25.851'E 52°51.046'N 001°29.324'E	48, 52	30/07/2018 - 31/10/2018 For 50 Days
Fugro GB Marine Ltd Fugro Normand Flower LAXN7		53°24.408'N 001°27.445'E	48	25/10/2018 - 31/12/2018 For 4 Days
Zenith Energy UK Ltd Sea Explorer C6NG6	1200m	53°22.679'N 001°26.373'E 53°25.393'N 001°24.373'E 53°26.479'N 001°28.506'E 53°23.763'N 001°30.502'E	48	05/10/2018 - 20/10/2018 For 6 Days
Gardline Geosurvey Ltd MV Kommandor MCJ02	1300m 5m	53°56.685'N 001°01.353'E 53°53.763'N 001°04.454'E 53°51.879'N 000°59.330'E 53°54.806'N 000°56.237'E	47, 48	28/09/2018 - 31/12/2018 For 15 Days
MG3 Survey UK Ltd Poseidon TFJC	600m 3m	53°26.432'N 001°28.420'E 53°23.716'N 001°30.417'E 53°22.632'N 001°26.293'E 53°25.346'N 001°24.288'E	48	15/09/2018 - 31/10/2018 For 6 Days
Fugro Fugro Meridian C6QR4	100m 30m	53° 42.08'N 00° 10.08'E 53° 54.02'N 00° 25.76'E 53° 52.90'N 00° 28.02'E 53° 39.61'N 00° 11.20'E	47	05/09/2018 - 25/10/2018 For 5 Days
Fugro Fugro Seeker 2HCS2	15m 5m	53° 39.00'N 00° 07.40'E 53° 40.00'N 00° 06.10'E 53° 42.20'N 00° 13.00'E 53° 41.00'N 00° 14.00'E	47	05/09/2018 - 25/10/2018 For 15 Days
Fugro Survey Limited TBC		52°37.139'N 002°46.842'E	53	03/09/2018 - 12/12/2018 For 8 Days
Gardline Geosurvey Ltd MV Kommandor MCJ02		53°54.248'N 001°00.593'E 54°02.388'N 000°26.357'E	42, 47, 48	28/08/2018 - 31/12/2018 For 8 Days
MMT MV Franklin OZ2102		53°39.991'N 000°06.892'E 52°58.973'N 002°58.334'E	42,43,47,48,49,52,53	07/09/2018 - 31/10/2018 For 25 Days

Company & Vessels	Towed Cable Length & Depth	Area Covered 1 (inc Quod Blocks)	Area Covered 2 (inc Quod Blocks)	Duration
Gardline Limited MV Ocean Observer GHXX	Side Scan 400 -500m	51°14.018'N 008°15.261'W 51°07.436'N 008°15.367'W 51°07.533'N 008°34.791'W 51°12.712'N 008°34.744'W 51°12.714'N 008°30.965'W 51°14.100'N 008°30.950'W		Late October / Early November For 25 Days
Fugro G.B Marine Skandi Carla		54°03.067'N 003°41.498'W 54°03.057'N 003°43.331'W 54°04.135'N 003°43.350'W 54°04.146'N 003°41.516'W	110	01/10/2018 For 35 days
James Fisher & Sons plc Halcyon days MDFP2 Fast Fisher 2GGN4		53°23.240'N 003°25.270'W 53°23.215'N 003°21.398'W 53°21.397'N 003°18.967'W 53°21.077'N 003°23.251'W	110	01/05/2018 - 31/12/2018 For 25 Days