



Kingfisher Fortnightly Bulletin

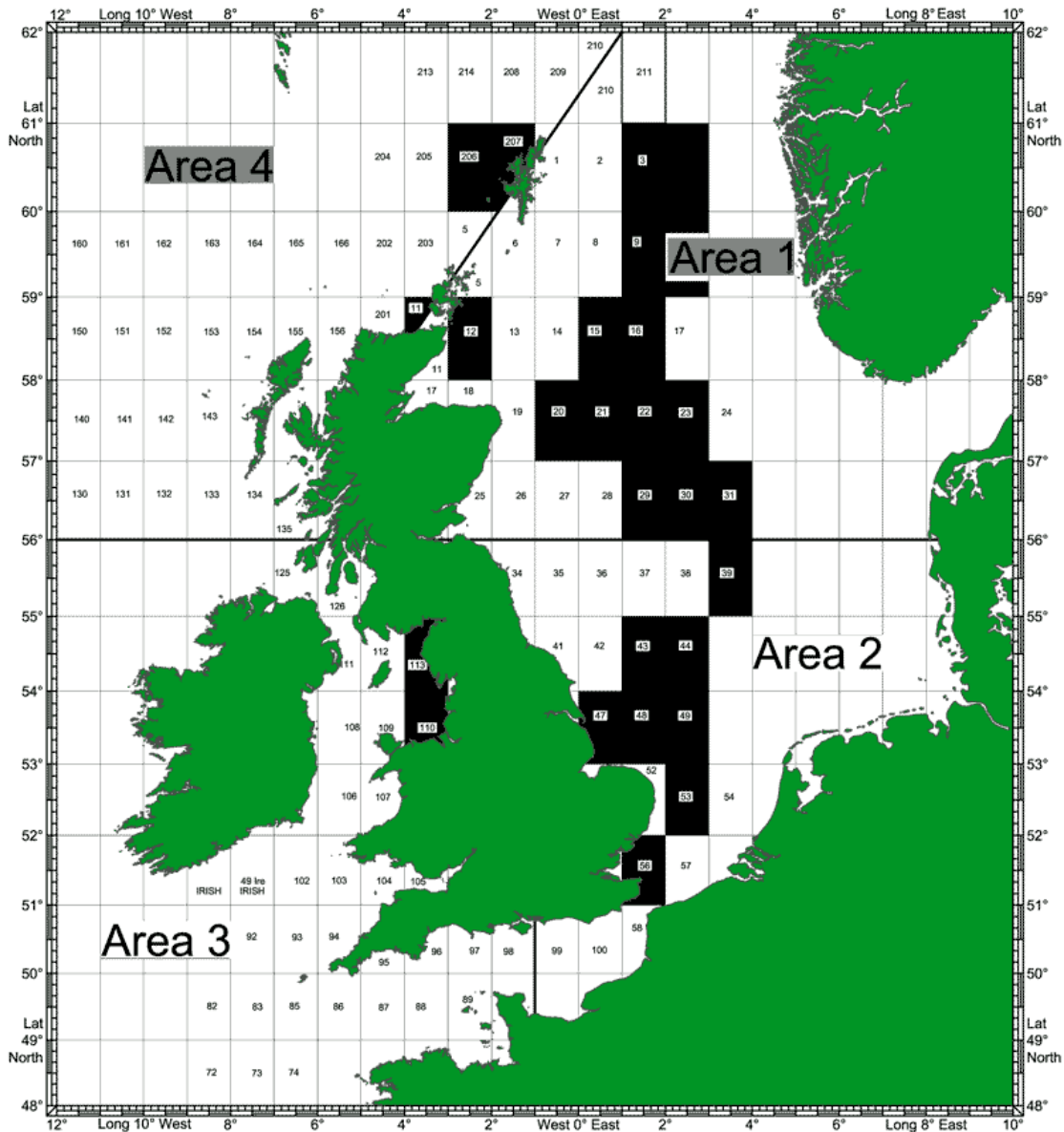


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The information in this Bulletin is contained within the shaded blocks and is displayed by area as designated by the map below



Unless otherwise stated, all co-ordinates listed in this Bulletin refer to WGS 84 datum

This Bulletin, along with the previous six issues, can now be viewed on the Seafish website at: www.seafish.org.uk

Alternatively you can receive the Bulletin via email, by contacting: kingfisher@seafish.co.uk

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Notice To Fishermen

Seabed Fastener – Large Wire

Please be advised that a large wire was snagged by a trawler and subsequently had to be cut away in position: 58° 28.82'N 00° 18.710'E. Skippers are recommended to mark this position on their plotters and to trawl clear of the location.

UKOOA Fishing Claims Co-ordinator

Cargo Vessel – Lost Containers

On Friday 29th December 2006 at 2.30, Shetland Coastguard received a call from the Gibraltar registered general cargo vessel 'Fehn Mistral' advising she had lost 20 empty containers overboard 8 miles east of Stronsay, Orkney. Weather conditions at the time were SSE force 10 winds with very rough sea conditions.

The vessel, which is on charter to Streamline, is making way to Kirkwall where she is expected to stay over New Year. Local authorities and shipping have been advised and a Navigation Warning has been issued.

Shetland Coastguard are warning vessels of the danger as they are a severe hazard to navigation.

For further details, please contact: The Maritime & Coastguard Agency Press Office, Tel: 023 8032 9401

Seabed Activity

Tweedsmuir Development – Construction Activities (Update 16-01-2007)

Talisman have received reports from the SFF that two trawlers have experienced difficulties whilst fishing in the vicinity of the newly laid Tweedsmuir 10" WI pipeline, approximately 2km South of the Galley crossing.

Talisman have carried out a preliminary survey with which was not conclusive and an addition detailed survey of the area will be carried out in the next week from Grampian Surveyor. In interim the guard vessel patrolling the Galley crossing has been asked to extend its patrol area to include the area 2km South of the Galley crossing.

Vessel	Operation	Dates
DSV Grampian Surveyor	Pipelay Survey Support	End Sept 2006 – Feb 2007
Castoro 6	Production Pipelay	End Sept 2006 – Jan 2007
Far Sovereign	Pipelay support, Trenching & Backfill	Dec 2006 – Feb 2007
DSV Bar Protector	Phase 2 Tie-ins	Has departed field and not scheduled to return until early March 2007

Key installation co-ordinates are as follows:

Piper Bravo Platform	58° 27.64' N 00° 14.96' E	Tweedsmuir South Manifold	57° 57.03' N 00° 11.62' E
Tweedsmuir Manifold	57° 59.73' N 00° 11.62' E	Tweedsmuir South WI Well	57° 57.64' N 00° 07.60' E

For further information, please contact: Paul Slater, Talisman Energy (UK) Limited, Tel: +44 (0)1224 352702, Mobile: 07762 899601, email: pslater@talisman.co.uk

WaGE (Wood and Gas Export) - Development Project (Update 18-01-2007)

Talisman Energy (UK) has now almost completed development of the Wood field, a subsea tie back to the Montrose and Arbroath Platforms. Wood is located in Block 22/18 approximately 10.4km SSE of the Montrose Platform and approximately 4km ESE of the Arbroath Platform. The Wood Well co-ordinates are: 57°21.68'N 01°26.44'E.

All subsea construction vessel activities have been completed, including rockdumping of the new pipeline crossings. There is an exposed Wood Well flowbase which is vulnerable to/from fishing operations until a drill rig installs the xmas tree arrives and fishing friendly protection structure. An SFF Guard Vessel will be present on site until the drill rig returns circa 4th February 2007. All skippers are requested to co-operate with the project in order to avoid damage to the Wood Well flowbase.

For further information please contact Matt Lebaschi at Talisman Expro c/o CSL in Aberdeen on 01224 285553 or by email mlebaschi@csl-group.co.uk



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Seabed Activity (cont...)

CNR International (U.K) Ltd – *Umbilical installation from Ninian South Platform to Columba E Subsea facilities (Update 08-11-2006)*

CNR International (U.K.) Limited are continuing their development of the Columba Field in Block 3/8 through the addition of water injection facilities. Columba E is south of the existing Ninian South Platform and this phase of the development project includes the drilling of two water injection wells and the installation of a subsea raw seawater injection system, powered and controlled from Ninian South Platform through a 7.5km umbilical pipeline.

The works will proceed in 2 stages. Stage 1 involves the trenching and installation of the umbilical pipeline from Ninian South Platform to a new subsea pump unit. Trenching will be to a depth of 1m and allowed to back fill naturally. This was completed on 25th May 2006. Stage 2 includes the drilling of the water injection wells and their connection to the pump unit. Drilling commenced with the Transocean Prospect coming on site 10th October and shall continue till end March 2007 at which time the wells will be connected to the pump unit for overall system commissioning and start-up early April 2007.

Location	Latitude	Longitude
Ninian South Platform	60°48.33'N	01°27.02'E
Subsea Pump Unit	60°44.68'N	01°25.02'E
Well 3/08-A1	60°44.66'N	01°25.03'E
Well 3/08-A2	60°44.67'N	01°25.01'E
Columba E - Safety Zone Centre*	60°44.67'N	01°25.01'E

Transocean Prospect - Drilling & Well Completion / Bar Protector - Diving works incl. Umbilical tie-in, Mattress Installation

All mariners are respectfully requested to give a wide berth to the above vessels.

For further information, please contact: Neil Rogerson, CNR Int (UK) Ltd, Tel. 01224 303600, neil.rogerson@cnrinternational.com

CNR International (U.K) Ltd – *Lyell – Ninian Southern Production Pipeline*

A large sea bed anomaly during survey activities on the route of our proposed Lyell - Ninian Southern production pipeline, and would ask that this be advised to skippers with the request that they mark their plotters and give the location a wide berth.

The details are as follows ; Object dimensions (L x W x H) 64m x 25m x 12m. Location 60°50.425' N, 01°23.27' E - this location is 191 m ENE of the suspended wellhead 3/02 - 8

The object was located during 22nd / 23rd November 2006 and our survey company reported it to us as the "site of a possible ship wreck". The anomaly has been reported to the UK hydrographic Office.

Trenching Odin Pipeline – *Maersk Assister (Update 08-01-2007)*

Please be advised that the MAERSK ASSISTER has been delayed and will now not mobilise in Tees Offshore Base until 15th January 2007, at the earliest. She will then sail to plough in the ODIN 25" diameter Gas pipeline to a depth of 1 metre such that the top of the pipe is 0.3 metres below seabed.

Ploughing in of the pipeline will not take place where the line is crossed by two other pipelines (16" diameter Frostpipe from Frigg to Oseberg "A" and a 10" Gas pipeline from Frigg to Lille Frigg).

Start of Odin Gas Pipeline	59° 52.743'N 02° 03.950'E
End of Odin Gas Pipeline	60° 04.554'N 02° 09.884'E

The duration of the work is expected to be around 10 days but much will depend on the prevailing weather.

For further information, please contact: Martin Dane Tel: 01224 855623 Mob: 07768 658571 e-mail: martin.l.dane@exxonmobil.com Grampian House, Union Row, Aberdeen, Scotland. AB10 1SA

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Seabed Activity (cont...)

Nevis West Beryl Development – Construction Activities (Update 13-12-2006)

Mobil North Sea Limited have commenced the development of the Nevis West Beryl fields located entirely in Block 9/13 in the Northern North Sea as a subsea tie-back to the Beryl Alpha platform, approximately 8km east of Nevis West Beryl.

The Nevis West Beryl Development will consist of a single wellhead (already installed), a production flexible flowline, an umbilical and rigid steel spoopies for gas lift from the adjacent Nevis Central Lewis wellhead. The flowline and umbilical will be laid into existing trenches from the wellhead to the Beryl Alpha Riser Access Tower platform via the existing Ness Centre subsea facility.

The Nevis West Beryl key installation coordinates are:

Nevis West Beryl Well	59° 33.315'N 01° 23.967'E
Ness Centre	59° 33.582'N 01° 25.767'E
Beryl Alpha Riser Access Tower Platform	59° 32.682'N 01° 32.051'E

The main construction / installation activities and schedule are given below:

Operation	Dates	Vessel
Flowline & Umbilical installation Tie-in	Completed 30/12/06 – 12/01/07	- DSV Pelican

The flowline and the umbilical installation has been completed and a guard vessel has been engaged for the period until the Tie-in DSV arrives in the field. Regular updates will be provided on the above schedule, which may be subject to change due to delays on preceding work or adverse weather during the work.

For further information, please contact: Jimmy White, Exxon Mobil, Tel. 01224 855531, Email. jimmy.whyte@exxonmobil.com

Shell Expl & Prod – Goldeneye Pipeline / Harvest Hope (Update 20-12-2006)

The sand/clay berm associated with Harvest Hope has been subjected to some remedial work. Intention is to re-survey the location in due course to check for natural dispersal and changing features. In the meantime skippers are recommended to note the co-ordinates in their plotters. The position is:

57° 54.760'N 000° 47.149'W

This is immediately over the Goldeneye glycol line and approx 20m from Goldeneye gas pipeline. The wreck of Harvest Hope lies approx 500m to the NE, close to the pipeline.

For further information, please contact: Duncan Cursiter, Shell, Email. duncan.cursiter@shell.com

Enoch – Development (Update 17-01-2007)

Talisman Expro is continuing the development of the Enoch field, a subsea tie back to the Marathon Oil UK operated Brae Alpha Platform. Enoch is located in block 22/18 approx 15km ESE of Brae Alpha. Well co-ordinates are as follows: 58°38.99'N 01°31.98'E. Subsea work commenced beginning of September and will continue until March 2007.

Work Completed - Installation of 8" production pipeline and 3" gas lift pipeline by Skandi Navica has been completed. The trenching of pipeline and umbilical pre-cut trench has been completed by the Maersk Assister. The Fennica has installed the 8" and 3" flexibles at Brae A and Nordica has installed the umbilical between Brae Alpha and the Enoch well. Approximately 50% of rockdumping has now been completed.

Work to be completed – The Ploaris is scheduled to complete tie-ins, testing and commissioning activities commencing end January. This work is expected to be completed in two phases with the second phase expected to be completed before end of first quarter 2007.

The Seahorse has completed approximately 50% of the rock dumping early December. The remaining rockdumping mainly between the Bruce and Tiffany pipeline crossings is expected to be completed by end of Q1 2007. The pipelines and umbilical will be vulnerable to/from fishing operations until fully installed and rock dumped. SFF guard vessels and liaison officers will be present as required. All skippers are requested to co-operate with the project in order to assist smooth installation.

For further information, please contact: Murdo Gillies, Subsea Project Manager, Tel: 01224 285566.

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Seabed Activity (cont...)

Brenda & Nicol Fields – Pipelines / Subsea Installation (Update 07-12-2006)

Oilexco North Sea Limited are in the first phase of development of the Brenda and Nicol Fields in Block 15/25a and b of the Central North Sea. The works involve the tie-back of new wells from Nicol and Brenda to Balmoral FPV.

The work entails the installation of a subsea manifold and subsea pump unit at Brenda, a subsea manifold at Nicol, piggybacked 6" production / 3" gas lift pipelines and control umbilical from Nicol to Brenda - approx. 9 km; and a 10" production, 6" gas lift and control umbilical from Brenda to Balmoral FPV - approx. 9 km.

The production and gas lift pipelines have now been installed and the umbilicals are due to be installed later this month. Tie-in and pre-commissioning work commences 8th December and will continue till 19th January.

Key locations

Location	Latitude	Longitude
Balmoral FPV	58° 13.682'N	01° 06.324'E
Brenda Subsea Manifold	58° 11.727'N	00° 58.316'E
Nicol Subsea manifold	58° 14.871'N	00° 50.715'E

Vessels Employed

CSO *Orelia*: 10th Dec. - 19th January 2007

Normand Pioneer: 8th Dec. - 1st January 2007

All mariners are respectfully requested to give a wide berth to the above vessels during these periods.

For further information, please contact: Colin Strachan, Tel. 020 8998 8748, Email. colin.strachan@westonenergy.com or Mike Coulthard, Tel. 01224 618901, Email. mcoulthard@oilexco.com

Marathon Petroleum (Norway) - Alvheim Development (Update 16-01-2007)

Marathon Petroleum Company (Norway) have offshore installation activities ongoing in association with the Alvheim Development. The Project consists of an FPSO development with four drill centres tied back to this central FPSO location. The drill centres, namely, Boa, Kneler A, Kneler B and East Kameleon are all located within the Norwegian sector.

A new 14" Gas Export Pipeline has been laid from the proposed FPSO centre to the existing 30" Scottish Area Gas Evacuation (S.A.G.E.) Tee [59°28.70'N 01°23.40'E], i.e. from the Norwegian sector towards the UK sector and all pipelay, trenching and back-fill operations are completed.

The new pipeline crosses at the following existing pipelines below :

16" Gas Export Gryphon to Beryl	59° 28' 44"N	01°31' 58"E
42" Buckland to Beryl Bundle	59° 28' 45"N	01°33' 48"E
42" Skene to Beryl Bundle	59° 28' 53"N	01°37' 03"E
24" Bruce to Forties	59° 30' 16"N	01°43' 01"E

All crossing points above have been covered in blanket rockdump into the trench transitions.

A new subsea tie-in skid has been installed at the following location [59°28.70'N 01°23.40'E] and is tie-in into the 14" gas export pipeline. A second tie-in spool is currently wet stored at this location with temporary protection mattresses - tie-in of this spool will be done later in the programme.

SFF guard vessel(s) and Liaison Representative are in attendance as appropriate, and all Vessel Masters are therefore requested to co-operate with the Project in order to ensure a smooth installation.

Activity	Proposed Dates		Vessel	
	start	finish		
Testing and Precommissioning	09/01/2007	19/03/2007	Danis	Ongoing
Diving Works	12/01/2007	24/03/2007	Wellservicer	Ongoing



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Seabed Activity (cont...)

Blane Field – Development Activities (Update 03-01-2007)

Talisman Expro Limited is developing the Blane field, a subsea tie back to the BP Ula platform. The Blane field lies on the UK/Norwegian median line in Blocks UKCS 30/3a and NOCS N1/2. The Blane field will be developed with two gas lifted subsea production wells designated PE and PW and one subsea water injection well designated IM. Production and controls will be tied back to the existing BP Ula platform. BP Ula is located approximately 33km north east of the Blane field in Norwegian Block 7/12.

The key co-ordinates of the Blane Project Development are as follows:

Location	Latitude	Longitude	Location	Latitude	Longitude
Well PE	56° 54.46' N	02° 27.18' E	Well IM	56° 54.47' N	02° 27.16' E
Well PW	56° 54.46' N	02° 27.15' E	Ula PP Platform	57° 06.67' N	02° 50.82' E

There are a total of 5 offshore crossing locations along each of the Blane pipeline/umbilical routes as detailed below:

Crossing Description	Latitude	Longitude
NORSEA COM 1 Fibre Optic Cable	57° 06.68' N	02° 50.56' E
36" Draupner to Ekofisk 2/4S Pipeline (Statpipe)	57° 05.04' N	02° 46.64' E
16" Cod to Ekofisk Pipeline (Decommissioned)	56° 58.34' N	02° 34.22' E
42" Draupner E to Dunkerque Gas Pipeline (Franpipe)	56° 55.92' N	02° 29.76' E
40" Sleipner R to SCP Gas Pipeline (Zeepipe Phase 1)	56° 55.90' N	02° 29.72' E

Water depths along the pipeline/umbilical route range from 73.5m at Blane (Lowest Astronomical Tide) to 70.7m at Ula with the seabed being relatively flat comparing predominantly loose and very dense silty sand.

Work will consist of the installation of the following :

- 33.1km long 10" insulated Production / 4" uninsulated Gas Lift piggybacked pipelines between Blane and Ula (post-lay trenched and mechanically backfilled).
- 33.1km long 8" uninsulated Water Injection pipeline between Ula and Blane (post-lay trenched).
- 33.1km long control umbilical between Ula and Blane (laid into a pre-cut trench).
- Riser caisson assembly, containing the pipeline risers and umbilical J-tube, at the Ula location (PP platform).
- Pipeline spoolpieces at the Blane and Ula locations.
- Subsea structure at the Ula location (Production and Gas Lift pipeline SSIV's).
- Pipeline crossings over the existing 40" Zeepipe, 42" Franpipe, 16" Cod Export, 36" Statpipe pipelines and NORSEA COM 1 fibre optic cable.
- Rockdump at Blane, the pipeline/umbilical crossing locations and along the pipeline route.

Vessels involved consist of:

Vessel	Activity
Calamity Jane	As-laid survey and pipeline trenching/backfilling operations
Maersk Assister	Pre-cut the trench for the umbilical
Nordica	Umbilical installation and diverless pipeline tie-in at Ula location
Pelican / Botnica	Pipeline pigging operations, pipeline and umbilical tie-ins at Blane and Ula locations and conduct pipeline/umbilical pre-commissioning work
Sandpiper	Install rockdump on the pipelines and at the crossing locations

Pipelay has been completed. Trenching and tie-in works ongoing at present. Umbilical installation and pre-commissioning activities are due to be completed during 1st quarter 2007. Rock dumping will take place in early 2007 along with the completion of the Water Injection well.

The pipelines and umbilicals will be vulnerable to/from fishing operations until fully installed and trenched. Guard vessels and fisheries liaison officers provided by the Scottish Fishermen's Federation (SFF) will be present during the installation operations.

All skippers are requested to co-operate with the project in order to assist smooth installation.

For further information, please contact: Mike Lowthian, Talisman, Tel. 01224 353130, Email. mlowthian@talisman.co.uk.

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Seabed Activity (cont...)

Banff & Kyle Fields - Pipelines / Subsea Installation

CNR International (UK) Limited intend to construct a 4 inch gas lift pipeline between the existing Banff Field Production Centre and Kyle North and South Fields in Block 29/2 of the North Sea. This project is to provide gas lift facilities to existing wells at Kyle North and Kyle South. The Pipeline Works include a 13.3 km 4 inch gas pipeline to be laid, trenched and buried, and the installation of three subsea manifold structures and associated controls. The new pipeline will cross the existing Fulmar 16" oil and 20" gas pipelines.

Offshore works are scheduled to commence 1st February 2007 and continue until end April 2007.

Key locations

Location	Latitude	Longitude
Banff Production Centre	56° 59.466'N	01° 18.966'E
Kyle North Production Centre	56° 54.933'N	01° 13.400'E
Kyle South Production Centre	56° 53.233'N	01° 14.016'E
Pipeline crossing	56° 56.925'N	01° 15.584'E

Vessels Employed

Normand Mermaid	5th - 16th February
Polarbojern	7th - 15th March
Falcon	15th Feb - 11th March
Trenching Vessel	8th - 27th March
Bibby Sapphire	1st March – 30th April
Guard Vessel at crossing	21st Feb – 31st March
Rock dump vessel	25th – 29th March

All mariners are respectfully requested to give a wide berth to the above vessels during these periods.

For further information, please contact: Colin Strachan, Tel. 020 8998 8748, Email. colin.strachan@westonenergy.com

Drilling of Well – Sedco 712

Please be advised that Oilexco are planning to drill a well at the following location using the Sedco 712 drilling unit:

58°00.554'N 00°00.830'E

The operation will start around the 31st December and will take up to 70 days in total.

Seismic Surveys

Company, Vessel & Call Sign	Towing Cable Length & Submerged Depth	Area Covered	Quadrant Blocks	Estimated Start Date & Duration
CNR UK Ltd TBA	600m +-3m	56°54.748'N 01°14.099'E	29/2c	15 th Oct - 1 st Mar 2007 For 10 Days
Shell UK Ltd TBA	N/A N/A	56°44.320'N 01°49.302'E	29/10	1 st Nov - 1 st April 2007 For 1 Day
Oilexco North Sea Ltd Fugro Meridian C6QR4	600m 3m	58°14.743'N 00°28.370'E 58°14.923'N 00°37.764'E 58°09.970'N 00°38.094'E 58°09.789'N 00°28.721'E	15/23d & 15/23c	20 th Nov – 20 th Jan For 5 Days
Venture Production PLC Ocean Researcher GDLS	600m 3m	Survey Centred on 57°12.076'N 01°16.996'E	22/22c & 22/22b	1 st Dec - 31 st March 2007 For 3 Days



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Seismic Surveys (cont...)

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<i>Company, Vessel & Call Sign</i>	<i>Towing Cable Length & Submerged Depth</i>	<i>Area Covered</i>	<i>Quadrant Blocks</i>	<i>Estimated Start Date & Duration</i>
Shell UK Ltd TBC TBC	N/A 5m	57°10.00'N 01°53.00'E 57°10.00'N 02°00.00'E 57°05.00'N 02°00.00'E 57°05.00'N 01°53.00'E 57°10.00'N 01°53.00'E	22/30a	1 st Dec – 30 th Apr 2007 For 1 Day
Venture Production PLC Ocean Researcher GDLS	600m 3m	Pipeline route survey from: 57°28.058'N 00°30.635'E To 57°43.419'N 00°44.913'E	21/18a, 21/13b, 21/14, 21/9	16 th Dec – 31 st Jan 2007 For 14 Days
Venture Production PLC Ocean Researcher GDLS	600m 3m	3km x 3km centred on: 57°04.030'N 00°15.021'E	21/27a, 27c	20 th Dec – 31 st Jan 2007 For 3 Days
Maersk Oil UK Ltd MV Bucentaur C6SU4	N/A N/A	2 x soil investigation surveys at: 56°31.642'N 02°36.394'E and 57°11.463'N 01°53.215'E	30/14, 22/25a	1 st Jan - 31 st Mar 2007 For 8 Days
Nexen Petroleum U.K Limited MV Ocean Seeker ZNZK5	1200m +/- 3m	3km x 3km Centred on 57°50.677'N 00°37.631'W	20/01 & 14/26a	14 th Jan - 28 th Feb 2007 For 14 Days
Nexen Petroleum U.K Limited MV Ocean Seeker ZNZK5	1200m +/- 3m	3km x 3km Centred on 57°59.256'N 00°55.651'W	20/01 & 14/26a	10 th Jan - 28 th Feb 2007 For 14 Days
Oilexco North Sea Ltd Fugro Meridian C6QR4	500m 150m	58°06.569'N 00°45.288'E 58°08.440'N 00°43.248'E 58°13.204'N 00°58.874'E 58°11.400'N 01°01.122'E	15/29a, 15/30, 15/25e & 15/25b	24 th Dec – 15 th Feb For 5 Days
Oilexco North Sea Ltd Fugro Meridian C6QR4	500m 150m	57°51.276'N 01°23.407'E 57°52.779'N 01°26.333'E 58°00.039'N 01°14.367'E 57°58.597'N 01°11.244'E	22/2b & 22/2a	24 th Dec – 15 th Feb For 5 Days
Veritas DGC Ltd M/V Seisquest LDIA3	8 x cables 6000m 8m	56°13'N 02°42'E 56°33'N 02°43'E 56°33'N 03°11'E 55°56'N 03°09'E 55°56'N 02°51'E 55°49'N 02°34'E 56°13'N 03°34'E	30/20,25,29,30 31/21,26 38/4 Norway 1/9 Norway 2/7,10	12 th January 2007 For 66 Days
Veritas DGC Ltd M/V Seisquest LDIA3	8 x cables 6000m 8m	58°27'N 00°14'E 58°27'N 00°39'E 57°49'N 00°40'E 57°48'N 00°22'E 58°06'N 00°21'E 58°06'N 00°15'E	15/17,18,22,23,28 21/3	15 th April 2007 For 33 Days
Lundin Britain Ltd Sea Explorer C6NG6	1400m 3m	58°24.628'N 02°38.366'W 58°23.818'N 02°39.911'W 58°23.008'N 02°38.366'W 58°23.819'N 02°36.822'W	12/17	15 th January 2007 For 5 Days
Lundin Britain Ltd Sea Explorer C6NG6	1400m 3m	57°45.132'N 00°19.187'E 57°45.297'N 00°27.184'E 57°38.777'N 00°27.641'E 57°38.612'N 00°19.668'E	21/08, 21/07, 21/12 21/13	20 th January 2007 For 5 Days
Nexen Petroleum U.K Limited MV Ocean Sea Surveyor C6QL6	1200m +/- 3m	3km x 3km Centred on 57°50.677'N 00°37.631'W	20/02a & 20/07ba	16 th Jan - 28 th Feb 2007 For 14 Days



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Suspended Wellheads

New Suspended Wellhead – Addition to August 2006 Yellow Card

Please note the following suspended wellhead that should be added to your Yellow Card and fishing plotter.

Well N°	OPERATOR	LAT	LONG
49/17-14	Conoco Phillips	53°27.692'N	02°16.987'E

Area 2

Notice To Fishermen

Arthur Field – Exposed Umbilical

Please be advised that an exposed section of umbilical has been discovered within the Arthur Field. The exposed section lies to the north side of the pipeline running between the Arthur 3 Wellhead and Arthur Manifold. The start and end points of this section are:

Start: 52°54.435'N 002°13.166'E End: 52°54.432'N 002°13.148'E

Please mark this exposed section on your fishing plotter and give the location a wide berth.

For further information, please contact: Jimmy Whyte, ExxonMobil, Tel: + 44 (0)1224 855531, Fax: + 44 (0)1224 855300 Jimmy.Whyte@exxonmobil.com

Area 2

Seabed Activity

Newfield Petroleum – West Cutter 49/9a-K

Newfield Petroleum UK Ld plan to position the jack-up drilling rig Ensco 85 in Block 49/09a after completion of operations at the Grove platform in Block 49/10a. The rig is expected to move after 21st Jan 2007 and to be on the 49/09a location for up to 3 months. The planned location of the rig is as follows:

53° 41.728'N 02° 36.140'E

Depending on success of the well, it may be long term suspended pending further development at the end of the drilling operation, with a 30" conductor set at 6ft (1.8m) above sea bed.

For further information contact: Peter Lorensen, Senior Drilling Engineer, Newfield Petroleum Ltd Tel: +44 (0)7971 540001

Area 2

Chiswick Field – Southern North Sea (Update 13-11-2006)

A new 10" gas pipeline and 1 ½" methanol pipeline has been installed in the Chiswick Field between a new compression tower platform adjacent to the existing Markham J6-A platform (within the Dutch sector). The facilities are at the following locations:

Chiswick Platform 53° 56.351' N 02° 44.747' E Markham Platform 53° 49.393' N 02° 56.626' E

Further to our earlier notification, the pipelines are now installed and have been trenched and backfilled. Current activities comprise the pipeline hydrotesting and as-backfilled survey. Future activities will be to install subsea spools and protection mattresses at the Markham and Chiswick platform locations. Please note that all vessels utilised for the project are dynamically positioned and will not therefore have any anchors deployed. CH₄ would like to thank all fishermen for their attention during the pipeline installation activities, with particular thanks to James Buckingham and Dave Bevan from NFFO for their advice and assistance.

Activity	Vessel	Schedule
Pipeline hydrotesting and as-backfilled survey	Skandi Inspector	Ongoing November 2006
Spool Tie-ins and leak testing	CSO Orelia	January 2007

For further information please contact: Steph Kiltie, CH₄ Energy Ltd., Tel: 01330 844642, Mob: 07767 446637, E-mail: steph.kiltie@ch4energy.com

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Please plot position coordinates into your fishing plotter or electronic chart display

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Seabed Activity (cont...)

Lynn and Inner Dowsing – Geophysical Survey

Please find details of the proposed cable route survey for the planned Lynn and Inner Dowsing offshore wind farms. The Lynn and Inner Dowsing offshore wind farm sites are located off the coast of Skegness, Lincolnshire.

The Licence owners Centrica, have contracted Subocean Ltd to install six subsea export cables and 2 array cables as part of the two projects, who in turn have subcontracted Gardline Hydro of Great Yarmouth, to undertake a geophysical survey of the route. SEtech, a sister company of Gardline Hydro have been asked to notify all interested parties to their wish to undertake the survey.

The survey will be conducted using multibeam echo sounder, side scan sonar and subbottom profile to accurately determine the depth and nature of the seabed within the survey corridor. In addition a magnetometer will be used to detect wrecks, cables and pipelines.

Survey services are to be conducted within and along the export cable route of the Lynn and Inner Dowsing Offshore Wind Farms. The survey objectives are to carry out a prelay cable route surveys, burial assessment, support of cable installation being carried out.

Inner Dowsing Wind Farm	Lynn Wind Farm
53° 12.79'N 00° 25.99'E	53° 08.83'N 00° 25.85'E
53° 12.80'N 00° 27.78'E	53° 08.83'N 00° 29.44'E
53° 10.10'N 00° 27.79'E	53° 07.48'N 00° 25.77'E
53° 10.10'N 00° 25.99'E	53° 07.49'N 00° 29.36'E

Anticipated water depths are between six and thirteen meters with work expected to commence on the 8th January 2007 and end approximately 20th January 2007 (excluding weather delays).

The Survey is to be conducted by the MV Confidante owned by Gardline, with all work to be undertaken along the export cables routes. The estimated time scales for completion of the works are given below;

- Mobilisation – 1 day
- Transit to site – 8hrs
- Geographical survey – 4 days (excluding weather delay)
- Transit to port on completion – 8 hrs
- Demobilisation in Great Yarmouth – 1 day

For further information, please contact Brian Davidson, Gardline surveys, Endeavour House, Admiralty Road, Great Yarmouth, Norfolk, NR30 3NG Tel +44(0)1493 845600 or by email Brian.davidson@gardline.co.uk

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Seabed Activity (cont...)

RWE Dea UK – Cavendish Platform & pipeline to Murdoch (Update 16-01-2007)

The drilling rig *Noble Al White* is presently drilling the first of three wells at the Cavendish platform (54°28.642'N 01°44.312'E on the Awareness Chart) and is expected to remain continuously at Cavendish until the middle of 2007. The standby vessel *Britannia Monarch* is currently in attendance and the rig is supported by the supply vessel *Olympic Provider*.

The reel-lay vessel *CSO Apache* has laid pipeline from the Murdoch platform to the in-line tee location (54°28.534'N. 01°59.048'E on the Awareness Chart). Severe weather in the North Sea continues to hamper pipelaying operations and *Apache* is now expected to resume at the in-line tee location on Saturday 21st January, weather permitting, accompanied by the tug *Alphonse Letzer* and the survey vessel *Skandi Inspector*. The vessels will operate towards Cavendish, laying pipe to a point approximately 5km south east of the Cavendish platform (54°28.642'N. 01°44.312'E on the Awareness Chart). Weather permitting, this phase of the work will be completed and *Apache* will depart on 24th January. The NFFO guard vessels *Coromandel* (Sat phone 0033 6400 47144) and *Enterprise* (Sat phone 0033 6400 13983) are currently on station and will remain with the line after the departure of the *Apache*.

Apache, *Alphonse Letzer* and *Skandi Inspector* will return to lay the third and last section of line on or around 28th January. This will be laid to the north east, terminating at the Cavendish platform and the operation will again take approximately 3 days. A third NFFO guard vessel will be placed on station at this time. All three guard vessels will remain on station until trenching, cable laying and backfilling are completed, around 19th March 2007. Trenching operations will commence early in February followed by cable laying and backfilling, all undertaken by the *Maersk Advancer*. A new survey vessel, as yet unnamed, may accompany the trenching / backfilling vessel.

The DSV *Northern River* will undertake various operations within the 500m zones of the Murdoch and Cavendish platforms from approximately 18th January onwards, departing mid April 2007.

In the interests of safety, mariners and vessels engaged in fishing activities are requested to take due notice and exercise caution whilst in the vicinity of Cavendish and Murdoch and the pipelay operations between the two platforms.

For further copies of Kingfisher's Cavendish awareness flyer, please contact Kingfisher using the details at the bottom of the page.

The expected schedule of activity is:

Dates	Planned Activities	Vessels
Sept 2006 - June 2007	<i>Noble Al White</i> drilling three wells at Cavendish.	<i>Noble Al White</i> , supply vessel <i>Olympic Provider</i> , standby vessels <i>Britannia Monarch</i> or <i>Putford Apollo</i> .
28 th Jan 2007 - 30 th Jan 2007	Return of reel-lay vessel <i>Apache</i> and tug <i>Alphonse Letzer</i> and laying of last section of pipeline between Cavendish and Murdoch.	Reel-lay vessel <i>CSO Apache</i> , tug <i>Alphonse Letzer</i> , survey vessel <i>Skandi Inspector</i> , NFFO guard vessels <i>Coromandel</i> and <i>Enterprise</i> .
18 th January 2007	Arrival of DSV <i>Northern River</i> at Murdoch and installation works in the Murdoch 500m zone, followed by similar works at Cavendish.	DSV <i>Northern River</i>
Early Feb 2007 Through 19 th March 2007	Arrival of trenching vessel <i>Maersk Advancer</i> and commencement of trenching, cable laying and back-filling operations.	Trenching and cable laying vessel <i>Maersk Advancer</i> , plus survey vessel (name TBA) NFFO guard vessels <i>Coromandel</i> and <i>Enterprise</i> . and (name TBA)

For further information, please contact: NFFO Fisheries liaison (Alan Piggot), Tel. +44 (0)1472 349009, Mob. 07803 607330, RWE Fisheries Liaison Officer (Charles Keiller), Tel. +44 (0)1243 573314, Mob. 07768 270812.

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Seabed Activity (cont...)

Thanet Offshore Wind Farm - Geotechnical Site Investigation (Update 01-12-2006)

From the 5th December 2006 for up to four weeks, Contractors working for Thanet Offshore Wind Limited (TOW) will be carrying out a geotechnical site investigation in the Thanet Offshore Wind Farm area (co-ordinates detailed below). This is a delay from the previously advised start date of 20th November 2006, due to adverse weather conditions. The start and finish dates stated are dependent on the prevailing weather conditions.

The survey will involve seabed sampling at up to 61 locations from either the *Multiraship Commander* or *M.V. Gray Mammoth* and will require that the vessel remains stationary for periods of approximately one hour at a time. Survey operations will either be carried out on a 24 hour basis for the *Multiraship Commander* or during daylight hours only for the *M.V. Gray Mammoth* with the vessel transiting from/to the Port of Ramsgate at the beginning and end of the day.

It is requested that all vessels operating in the area of survey, keep their distance and pass at minimum speed in order to minimise their wash. During the survey, the vessel will display the prescribed lights and signals for underwater operations and will be monitoring VHF Channels 16 and 12.

AREA OF OPERATIONS (Site Boundary):
A. 51 26.5768'N 01 34.1741'E D. 51 25.4608'N 01 41.2738'E
B. 51 27.6479'N 01 36.0722'E E. 51 24.0510'N 01 41.2674'E
C. 51 27.6469'N 01 38.1208'E F. 51 24.1616'N 01 37.6621'E

The Fisheries Liaison Officer appointed for these works is Tom Brown MBE, who can be contacted on 07855 409395 in the first instance.

For further information, please contact: Thanet Offshore Wind Limited, Wellesbourne House, Wellesbourne, Warwick, CV37 8DB

Seismic Surveys

Company, Vessel & Call Sign	Towing Cable Length & Submerged Depth	Area Covered	Quadrant Blocks	Estimated Start Date & Duration
Venture Production PLC MV Ocean Researcher GDLS	N/A N/A	3 Pipeline route surveys, originating from: 53°35.429'N 01°46.404'E And to: 53°27.492'N 01°44.005'E 53°34.066'N 01°58.170'E 53°40.939'N 01°55.484'E	48/10a, 14a, 15a, 15b, 19a	16 th Dec – 31 st Jan 2007 For 14 Days
E.ON Ruhrgas UK N Sea Ltd MV Bucentaur C6SU4	TBA	Rita Well Site: 54°16.025'N 02°13.781'E Babbage Well Site: 53°57.779'N 01°13.157'E	43, 44	15 th January 2007
Shell UK Limited Ocean Researcher GDLS	N/A	1km x 1km debris survey centred on 53°41.691'N 02°37.344'E	49/9A(P1)	30 th Jan – 28 th Feb 2007 For 3 Days

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Notice To Fishermen

Temporary Seabed Obstruction – *Subsea Tee (IOM Spur – Interconnector No 2)*

Due to a temporary suspension of maintenance work, the location of the subsea tee protection structure on the Bord Gais Interconnector pipeline should be treated as an obstruction on the sea bed. The position of this is:

54° 20.4640'N 04° 44.5792'W (Height above seabed: 3 metres)

A temporary buoy was installed at the location on 29th November 2006 and this will be replaced by a Special Mark buoy equipped with lights and radar reflector as soon as possible.

Vessels are advised to avoid this location and the area within 100 metres radius centred on this position, especially if their activities involve interaction with the sea bed (e.g. trawling, anchoring).

Seabed Activity

Burbo Bank Offshore Wind Farm – *Construction (Update 21-12-2006)*

The current run of poor weather is delaying the re-start of the Cable installation on the Infield or Inter-Array Cables along 'Row B' on the BURBO BANK WIND FARM SITE.

Because of these delays the FEPA Licence has again been extended to permit construction to continue through the months of January and February.

The Cable Installation Barge 'BODO INSTALLER' will be towed back on site by the Anchor Handling Tug 'SIDI C' to begin work on the installation of the Infield or Inter-Array Cable along 'Row B'

Please note that only the Foundation or Bases of this Wind Farm have been installed so far and Safety Zones apply.

Please note that there are still exposed cable ends on the seabed within the Wind Farm Site and mariners are requested not to anchor or conduct any kind of fishing operations within at least 500 meters of the Wind Farm Perimeter during this period.

Each of the 25 installed foundations (or bases) is mounted with the Transition Piece and is approx. 22 meters in height above the lowest Astronomical Tide, approx 5 meters in diameter and is fitted with a solar powered amber LED lantern.

The wave rider buoy deployed at Burbo Offshore Wind Farm in pos: 53°29.64 N 003°13.65 W is off station and missing. Description of the buoy: Spherical yellow buoy, diameter 0,7 m Fl (5) Y 20s.

The positions of the three Cardinal Buoys marking the site are:	West Cardinal Buoy:	53°30.21'N 03°13.55'W
	West Cardinal Buoy:	53°29.70'N 03°13.79'W
	South Cardinal Buoy:	53°28.22'N 03°11.10'W

Please refer to the Kingfisher Flyer when identifying Turbine positions, Wind Farm location, Export Cable routes and Cardinal Buoy positions. If anybody requires an additional copy of this Flyer please do not hesitate to contact me.

For further information, please contact: Tom Watson, Tel: 01253 875565, Mobile: 07903 173 624

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Please plot position coordinates into your fishing plotter or electronic chart display

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Seabed Activity (cont...)

Barrow Offshore Wind Farm – Activity (Update 12-01-2007)

Please note that there is still EXPOSED CABLE on the seabed in this area and mariners are requested to note the position and enter them on their chart.

Remedial work will be carried out on this and on other EXPOSED CABLES as soon as possible.

EXPOSED CABLES - all mariners please note that until further remedial work is carried out there is a danger of exposed cable on the seabed close to the turbine structures within the site along the infield or inter-array cable route.

Mariners are requested not to anchor within at least 500 meters of the wind farm perimeter, and fishermen are requested not to conduct any kind of fishing operation within at least 50 meters of any of the turbine positions until remedial work has been carried out and you have been informed

There is also an exposed cable on the seabed in the Heysham Lake Lune Deep area between the following co-ordinates:

53°59.61'N 02°59.17'W and 53°58.20'N 03°03.37'W.

The GUARD VESSEL on station at this position is being stood down as from Sunday 14th January.

Mariners are requested to note these positions and enter them on their chart and not to anchor or conduct any kind of fishing operations within at least 500 meters of either end of the two given positions.

Two other positions of EXPOSED POWER CABLE have been identified on the shoal just to the North and East of the Wind Farm Site and mariners again are requested not to anchor or conduct any kind of fishing operations within 500 meters of these positions until remedial work has been carried out: 53°58.87'N 03°12.86'W and 53°59.14'N 03°15.49'W.

If anybody requires a copy (electronic or hard) of the Kingfisher Flyer which shows this Wind Farm location, the Turbine positions as well as the Export and Infield or Inter-Array Cable Routes please contact me.

For further information, please contact: Tom Watson, Tel: 01253 875565, Mobile: 07903 173 624

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Seismic Surveys

Company, Vessel & Call Sign	Towing Cable Length & Submerged Depth	Area Covered	Quadrant Blocks	Estimated Start Date & Duration
Total E&P UK PLC Fugro Mercator C6NV9	N/A	Amendment to Issue 23/2006 Route 1 60°56.69'N 02°53.59'W 60°48.50'N 01°36.25'W 60°46.25'N 01°17.75'W 60°40.00'N 01°13.00'W then Yell Sound to Orka Voe 60°28.60'N 01°16.00'W Route 2 60°56.69'N 02°53.59'W 60°52.10'N 02°21.00'W 60°46.95'N 02°11.01'W 60°27.25'N 01°38.50'W 60°27.25'N 01°34.50'W To Sand Wick 60°29.00'N 01°30.00'W	206/1, 2, 3, 4, 5, 8, 9, 10, 15 & 207/1, 6, 7, 8, 9, 15, 16, 20, 21	6 th Dec - 31 st Jan For 50 Days
Ithaca Energy (UK) Ltd MV Bucentaur C6SU4	N/A	58°02.606'N 03°20.113'W	11/29	4 th Jan – 30 th Jan 2007 For 2 Days
Ithaca Energy (UK) Ltd MV Bucentaur C6SU4	N/A	58°03.111'N 03°20.736'W	11/29	4 th Jan – 30 th Jan 2007 For 2 Days

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Rigs List

Rig	Latitude	Longitude	Rig	Latitude	Longitude
GSF Labrador	52°21.60'N	03°20.50'E	Stena Spey	58°18.10'N	01°42.40'W
Ensco 80	53°27.70'N	02°17.10'E	Deepsea Bergen	59°32.90'N	02°01.20'E
Noble Julie Robertson	53°35.50'N	01°46.50'E	G.S.F 140	59°53.00'N	01°42.60'E
Noble Kolskaya	53°56.40'N	02°44.80'E	Paul B Loyd JR	60°22.90'N	04°05.90'W
Ensco 92	54°08.60'N	00°31.70'E	West Venture	60°43.80'N	03°30.80'E
Noble Ronald Hoop	54°15.20'N	02°44.60'E	G.S.F Arctic 4	60°43.90'N	02°29.90'W
Noble Ton Van Langeveld	56°26.60'N	02°42.10'E	Transocean Prospect	60°44.70'N	01°25.00'E
Rowan Gorilla 7	56°33.60'N	02°38.00'E	Songa Dee	60°53.60'N	03°40.30'E
Sedco 714	56°50.70'N	02°10.10'E	Byford Dolphin	60°53.90'N	01°16.20'E
Sedco 711	57°10.00'N	02°15.00'E	Deepsea Trym	60°56.80'N	03°39.80'E
J.W McLean	57°16.50'N	00°49.80'E	Transocean Rather	61°01.30'N	03°48.50'W
G.S.F Arctic 2	57°18.70'N	01°30.80'E	Bideford Dolphin	61°02.60'N	03°36.00'E
G.S.F Arctic 3	57°19.10'N	01°05.10'E	Transocean Leader	61°04.70'N	01°59.30'E
Transocean John Shaw	57°48.00'N	00°56.40'W	Borgland Dolphin	61°20.50'N	01°59.80'E
Sedco 712	57°53.20'N	01°21.00'E	Ocean Guardian	61°31.80'N	01°39.70'E
Borgsten Dolphin	57°58.60'N	00°54.90'W	West Navigator	63°29.80'N	05°23.00'E
Ocean Nomad	57°59.60'N	00°02.40'W	Ocean Vanguard	64°16.60'N	07°44.20'E
Maersk Giant	58°01.40'N	01°55.10'E	West Alpha	64°46.30'N	06°42.50'E
Sedco 704	58°01.70'N	01°42.90'E	Scarabeo 5	65°00.90'N	06°26.30'E
Petrolia	58°08.60'N	01°41.60'E	Transocean Searcher	65°02.40'N	06°56.50'E
Ocean Princess	58°15.20'N	01°14.20'E	Stena Don	65°22.80'N	07°22.90'E
			Transocean Arctic	66°05.00'N	08°14.60'E

Rigs & Anchors

Rigs & Anchors

Rigs & Anchors

Anchors

"Rig anchors may extend up to one mile from the rig position. Anchor buoys not always deployed. Fishing within the anchor pattern should be avoided. Fishermen may contact the installation or the ERRV (standby vessel) for positions of the anchors."

Pre-Laid Anchor Moorings – Awaiting Arrival of Global Santa Fe 140

Please note 2 pre-laid anchor moorings have been laid at the 9/4 Howegate location awaiting the arrival of the Global Santa Fe 140 drilling unit. A guard vessel the Deliverance FR 254 is on location in case of fishing vessel activity. The anchor positions are:

No 7 Anchor - 59°52.32'N 01°41.76'E	No 7 Pennant End - 59°52.44'N 01°42.20'E
No 8 Anchor - 59°52.92'N 01°41.88'E	No 8 Pennant End - 59°52.81'N 01°42.31'E

Rigs & Anchors

Transocean Rather – As Laid Anchor Positions

Anchor Number	Bearing (True)	Distance (Feet)	Latitude	Longitude
Rig	-	-	61°01.26' N	03°48.61' W
1	300.0°	10348	61°02.13' N	03°51.67' W
2	340.0°	9905	61°02.27' N	03°49.76' W
3	020.0°	9983	61°02.80' N	03°47.43' W
4	059.9°	10144	61°02.12' N	03°45.60' W
5	128.6°	10466	61°00.42' N	03°45.47' W
6	160.2°	9652	60°59.75' N	03°47.48' W
7	199.9°	10279	60°59.66' N	03°49.82' W
8	239.7°	10131	61°00.41' N	03°51.60' W

Rigs & Anchors



Please plot position coordinates into your fishing plotter or electronic chart display

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Anchors (cont...)

Borgsten Dolphin – As Laid Anchor Positions (20/1 Golden Eagle)

Anchor Number	Bearing (True)	Distance (Feet)	Latitude	Longitude
Rig	-	-	57°58.54' N	00°54.89' W
1	330.0°	3127	57°59.01' N	00°55.38' W
2	000.0°	3238	57°59.09' N	00°54.89' W
3	029.4°	3251	57°59.03' N	00°54.39' W
4	059.9°	3274	57°58.80' N	00°53.97' W
5	089.9°	3304	57°58.53' N	00°53.82' W
6	120.8°	3268	57°58.26' N	00°53.96' W
7	149.8°	3159	57°58.06' N	00°54.39' W
8	181.4°	3425	57°57.95' N	00°54.91' W
9	210.0°	3251	57°58.05' N	00°55.39' W
10	239.9°	3205	57°58.27' N	00°55.79' W
11	269.9°	3461	57°58.54' N	00°56.01' W
12	300.0°	3199	57°58.80' N	00°55.80' W

Ocean Princess – As Laid Anchor Positions (Burghley)

Anchor Number	Bearing (True)	Distance (Feet)	Latitude	Longitude
Rig	-	-	58° 15.21' N	01° 14.09' E
1	337.4°	3735	58° 15.80' N	01° 13.64' E
2	022.3°	3774	58° 15.81' N	01° 14.53' E
3	061.5°	3737	58° 15.51' N	01° 15.16' E
4	111.7°	3535	58° 14.99' N	01° 15.16' E
5	157.7°	3747	58° 14.61' N	01° 14.54' E
6	202.3°	3870	58° 14.60' N	01° 13.63' E
7	247.2°	3606	58° 14.98' N	01° 13.01' E
8	292.5°	3885	58° 15.45' N	01° 12.92' E

Borgholm Dolphin – Anchor Positions (Alongside Armada Platform 22/5)

It is planned for the Borgholm Dolphin flotel to be positioned alongside the Armada Platform from 10th January 2007 through to 9th September 2007 to support maintenance and construction activities on the Armada Platform.

Anchor Number	Bearing (True)	Distance (Feet)	Latitude	Longitude
Rig	-	-		
1			57°57.08'N	001°49.83'E
2			57°57.14'N	001°49.78'E
3			57°57.21'N	001°49.75'E
4			57°57.99'N	001°50.84'E
5			57°58.07'N	001°50.94'E
6			57°58.02'N	001°51.05'E
7			57°57.61'N	001°51.78'E
8			57°57.59'N	001°51.94'E

Rigs & Anchors

Rigs & Anchors

Rigs & Anchors

Rigs & Anchors

Rigs & Anchors



Please plot position coordinates into your fishing plotter or electronic chart display

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Anchors (cont...)

Sedco 711 – As Laid Anchor Positions (At Pierce Forties Well)

Anchor Number	Bearing (True)	Distance (Feet)	Latitude	Longitude
Rig	-	-	57°10.06'N	002°15.38'E
1	223.0°	3524	57°09.62'N	002°14.61'E
2	268.5°	3560	57°10.03'N	002°14.25'E
3	313.1°	3688	57°10.50'N	002°14.54'E
4	358.9°	3658	57°10.68'N	002°15.34'E
5	043.1°	3629	57°10.50'N	002°16.17'E
6	093.6°	3714	57°10.03'N	002°16.54'E
7	147.5°	3701	57°09.52'N	002°16.00'E
8	180.3°	3593	57°09.44'N	002°15.39'E

Sedco 712 – As Laid Anchor Positions (At 15/21b-Kildare location)

Anchor Number	Bearing (True)	Distance (Feet)	Latitude	Longitude
Rig	-	-	58°00.34'N	000°00.52'E
1	246.9°	3520	58°00.11'N	000°00.52'E
2	288.3°	3615	58°00.52'N	000°00.60'E
3	340.8°	3438	58°00.39'N	000°00.11'E
4	022.0°	3410	58°00.88'N	000°00.91'E
5	072.5°	3477	58°00.51'N	000°01.59'E
6	112.3°	3516	58°00.12'N	000°01.57'E
7	155.5°	3335	57°59.81'N	000°00.94'E
8	205.3°	3486	57°59.79'N	000°00.05'E

Petrolia – As Laid Anchor Positions (At Maureen)

Anchor Number	Bearing (True)	Distance (Feet)	Anchor Positions Latitude	Anchor Positions Longitude	Pennant Ends Latitude	Pennant Ends Longitude
Rig	-	-	58°08.52'N	001°41.47'E	58°08.52'N	001°41.47'E
1	333.1°	5538	58°08.35'N	001°40.35'E	58°09.42'N	001°40.91'E
2	008.7°	5397	58°09.42'N	001°41.74'E	58°09.56'N	001°41.79'E
3	043.9°	5279	58°09.17'N	001°42.63'E	58°09.27'N	001°42.85'E
4	079.8°	5390	58°08.67'N	001°43.16'E	58°08.70'N	001°43.47'E
5	116.5°	5157	58°08.14'N	001°42.95'E	58°08.07'N	001°43.18'E
6	147.9°	5131	58°07.78'N	001°42.32'E	58°07.66'N	001°42.45'E
7	189.0°	5348	58°07.63'N	001°41.21'E	58°07.45'N	001°41.15'E
8	226.1°	3363	58°07.91'N	001°40.25'E	58°07.82'N	001°40.06'E
9	261.7°	5180	58°08.39'N	001°39.83'E	58°08.22'N	001°39.62'E
10	297.4°	5512	58°08.95'N	001°39.91'E	58°08.84'N	001°39.78'E

Ocean Guardian – As Laid Anchor Positions (At Penguins Field)

Anchor Number	Bearing (True)	Distance (Feet)	Latitude	Longitude
Rig	-	-	61°31.79'N	001°39.56'E
1	264.4°	3816	61°31.74'N	001°38.20'E
2	304.7°	3727	61°32.15'N	001°38.45'E
3	353.6°	3891	61°32.45'N	001°39.42'E
4	039.1°	3885	61°32.31'N	001°40.42'E
5	083.8°	3793	61°31.85'N	001°40.91'E
6	128.6°	3816	61°31.39'N	001°40.64'E
7	179.3°	4009	61°31.11'N	001°39.56'E
8	219.9°	3937	61°31.28'N	001°38.69'E

Rigs & Anchors