

BALTIC SEA ACTIVITIES

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FOGA ApS
FISHERMENS
INFORMATION
OF OIL- AND
GAS ACTIVITIES

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BALTIC SEA ACTIVITIES

INFORMATION about
pipelay project in the
BALTIC SEA

ENG

June 28, 2012

Updates and news are highlighted in red.

FOGA ApS has prepared the following newsletter on the basis of information provided by Nord Stream AG.

Natural Gas Pipeline

Pipeline Route Key Data:

2 parallel pipelines, each 1224 km, between Portovaya Bay (Russia) and Lubmin (Germany)



The Western pipeline (1. pipeline) is laid and commissioned.



Lubmin

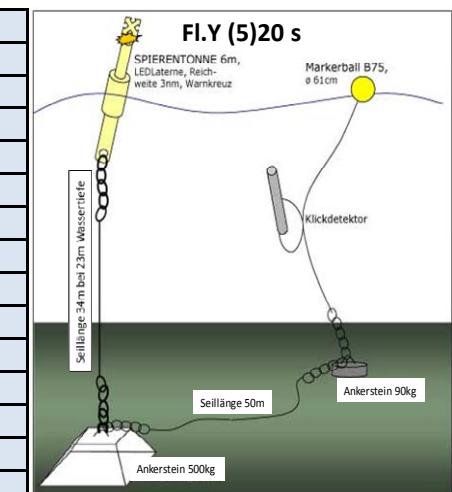
Pipeline of the Eastern pipeline (2. pipeline) was completed 18/4 02:30 hrs.



Hydrophones deployed in the German EEZ :
The vessel, ARNE TISELIUS, plans June 26th servicing of the POD buoys for observation of sea mammals in the German EEZ.

The POD buoys will remain in the area until Dec.2012.

BC 1	54° 42,170' N 14° 06,320' E
BC 2	54° 32,990' N 13° 49,990' E
BC 3	54° 22,050' N 14° 12,980' E
BC 4	54° 21,390' N 13° 47,000' E
BC 5	54° 12,480' N 14° 16,970' E
BC 6	54° 10,240' N 13° 58,990' E
BC 7	54° 00,000' N 14° 08,970' E
BC 8	54° 35,070' N 14° 27,410' E
BC 9	54° 34,330' N 14° 17,920' E
BC 10	54° 31,720' N 14° 09,470' E
BC 11	54° 29,780' N 14° 00,660' E
BC 12	54° 24,640' N 13° 57,220' E
BC 13	54° 20,070' N 13° 51,700' E
ODAS 13	54° 16,010' N 13° 44,430' E
ODAS 14	54° 06,920' N 13° 58,270' E



Information of the Project and pipe route data:

Foga Aps has completed distribution of information to the fishermen with this news letter and hereby take the opportunity to thank all our contacts for their support and patience, and at the same time congratulate Nord Stream with a successfull project.

Distribution of USB sticks containing data for implementation in MaxSea compatible plotter systems in fishing vessels is planned, when the final surveys of the 2 pipe lines are completed in Autumn 2012.

SAFETY distances to activities

SKANDI ARCTIC is restricted in the ability to manoeuvre, when conducting hyperbaric tie-in operation at the gas pipeline route, due to equipment operated at the seabed via umbilicals.

Seafarers are therefore requested to keep a safety distance of 1 nautical mile to the activities mentioned above.

Related Activities

Arne Tiselius: From June 26-29, servicing of POD buoys in the German EEZ

Rock placement SE of Bornholm (between KP 1077-1078) is postponed to July/August 2012.

NORD STREAM link:

<http://www.nord-stream.com/pipeline/>

<http://www.nord-stream.com/press-info/>

<http://www.nord-stream.com/press-info/press-releases/>

Hyperbaric tie-in Operation

The hyperbaric tie-in operation of pipeline No. 2 is conducted by SKANDI ARCTIC at the KP 674 (Gotland) position 57° 24,11' N 019° 23,03 E until medio July.

The vessel Achilles will guard the safety zone and assist in case of emergency.

Hereunder please find a brief description of the tie-in operation.

Concrete mattress installations at cable crossings:

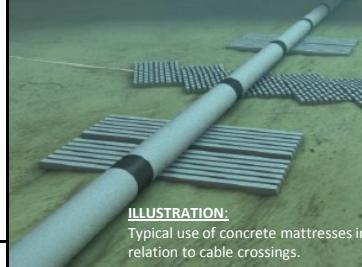


ILLUSTRATION:
Typical use of concrete mattresses in relation to cable crossings.

Center positions

1)	54° 36,863' N 14° 30,535' E	16)	59° 44,910' N 24° 23,280' E
1 a)	54° 53,201' N 15° 02,826' E	17)	59° 45,200' N 24° 23,380' E
2)	54° 53,300' N 15° 02,753' E	18)	59° 45,300' N 24° 23,430' E
2 a)	54° 53,511' N 15° 04,133' E	19)	59° 45,580' N 24° 24,540' E
3)	54° 53,623' N 15° 04,027' E	20)	59° 45,450' N 24° 24,530' E
4)	55° 18,141' N 15° 23,760' E	21)	59° 45,690' N 24° 24,580' E
5)	55° 27,404' N 15° 33,176' E	22)	59° 46,680' N 24° 30,070' E
5 a)	55° 27,401' N 15° 33,371' E	23)	59° 46,900' N 24° 30,690' E
6)	55° 33,120' N 15° 46,500' E	23 a)	59° 47,300' N 24° 34,700' E
7)	55° 33,130' N 15° 46,530' E	24)	59° 47,510' N 24° 33,990' E
8)	57° 09,240' N 19° 12,930' E	25)	59° 51,140' N 24° 50,120' E
9)	57° 44,480' N 19° 37,810' E	26)	59° 51,210' N 24° 49,260' E
10)	57° 44,540' N 19° 37,990' E	27)	59° 51,210' N 24° 48,010' E
11)	57° 44,550' N 19° 38,000' E	28)	59° 51,300' N 24° 49,280' E
12)	58° 19,380' N 20° 01,910' E	29)	59° 51,590' N 24° 51,300' E
13)	59° 10,330' N 21° 04,290' E	30)	59° 51,680' N 24° 51,280' E
14)	59° 12,730' N 21° 06,920' E	31)	60° 08,050' N 27° 03,290' E
15)	59° 12,850' N 21° 07,310' E		



Remotely operated vehicle
Welding habitat



HYPERBARIC TIE-IN OPERATION

All subsea equipment: Welding habitat, diving bell, ROV/cameras are handled at the seabed via umbilicals from the SKANDI ARCTIC. The diving vessel is therefore unable to manoeuvre from the position of operation.

DIVING BELL

A three man diving bell brings the divers from the diving systems, where they live under pressure, to their subsea work area. Divers work an 8 hour shift, and then return to the diving system on board the Skandi Arctic to rest.