

To:	PSW	
From:	IOS Intermoor: Inge Moy	
Date:	17.08.2015	
Copy to:	Songa Offshore	
Number of pages:	4	
Subject:	Cat-D Moored at Mongstad	

Introduction:

Songa Offshore plan to intall a pre-laid anchor spread near Mongstad. The pre-laid anchor spread will be hooked up to the new Cat-D rigs, and used for testing of their POSMOOR-ATA system. The spread shall not hold any envinronmentel loads, and maximum load on rig fairlead is 100Te. See table 1 for mooring spread details.

Note that the rigs location, chain length and anchor positions given in this document are preliminary and may be subject to minor changes.



Figure 1 Songa Endurance



Table 1: Line length and tension

Water depth at rig laocation: approx 530m.

Line no	Chain	Chain Dimension +	Max Anchor	Water Depth at
	Length	Anchor Size	Load*	Acnhor
1	1160m	84mm + 15Te Anchor	0 Те	450m
2	1350m	84mm + 15Te Anchor	0 Те	400m
3	1250m	84mm + 15Te Anchor	0 Те	125m
4	1260m	84mm + 15Te Anchor	0 Те	150m
5	1260m	84mm + 15Te Anchor	0 Те	150m
6	1260m	84mm + 15Te Anchor	0 Те	150m
7	1250m	84mm + 15Te Anchor	0 Те	100m
8	1270m	84mm + 15Te Anchor	0 Те	200m
9	1330m	84mm + 15Te Anchor	0 Те	350m
10	1370m	84mm + 15Te Anchor	0 Те	450m
11	1330m	84mm + 15Te Anchor	0 Те	350m
12	1130m	84mm + 15Te Anchor	0 Те	400m

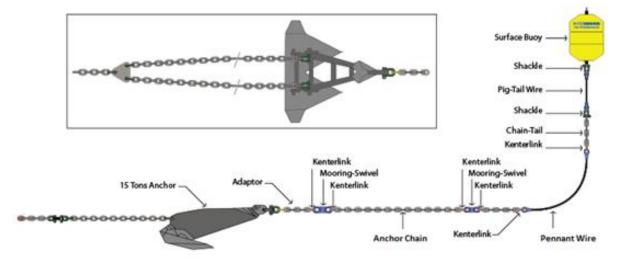
* Max anchor load at 100Te fairlead tension. Due to the weight of the chain, the anchor will not experience any loads.

Mooring line characteristics:

Component	Diameter [mm]	Immersed weight [t/m]	Minimum Breaking Load [t]	Axial Stiffness, EA [t]
84mm R5 chain	84	0.134	858	0.706*10 ⁵



Pre Lay Mooring Line Set Up:





Mooring Spread at Mongstad

