



# PSW Group

## Songa Offshore Fjordstay Fensfjorden

### 2015-2016



SUPPORTING THE  
SUBSEA & DRILLING INDUSTRY



# QHSE



Quality, health, safety and environmental (QHSE) is in PSW GROUP integrated into the all the daily routines of the company and will be a guiding principle for also this fjordstay project.

QHSE work is constant and a high priority which in everything we do and is further evaluated yearly against planned improvements (KPI).

QHSE is also one of the core values of the company.

PSW GROUP is a secure, considerate, and healthy employer, while at the same time showing consideration for the environment and following up on it's inner and outer environmental requirements.

PSW Groups objective is:

**"0 accidents and 0 errors"**



# Background



Songa Offshore will during 2015 and 2016 take delivery of four new Cat D mid-water semi-submersible rigs from the Korean yard DSME.

These new-builds will require testing of rig and 3<sup>rd</sup> party equipment, as well as minor upgrades and or modifications.

PSW Group have together with Semco Maritime been awarded the Contract for the receipt and preparation with a fjordstay model for up to four rigs from Songa Offshore.

Fensfjorden is situated with close proximity to Songa's operating hub at Mongstad and PSW Group has a well established relationship with Songa Offshore over several years.

PSW Group has produced this presentation to give a brief description of how the fjordstay model will be carried out.



# About PSW Group



**Oil Service Company** headquartered at Mongstad, Hordaland with offices in Kristiansund, Liverpool and Aberdeen. The company employs approximately 170 employees

- **“One Stop Shop”** for existing and new equipment;
  - Engineering service according to given specifications and standards
  - Project management and documentation
  - Purchasing and delivery of new items
  - Assembling, modification, maintenance and testing of equipment
  - Welding/NDT
  - Surface treatment
  - Storage of equipment
  - Rental of Subsea & Drilling equipment
  - Yard services at PSW Skipavika Yard

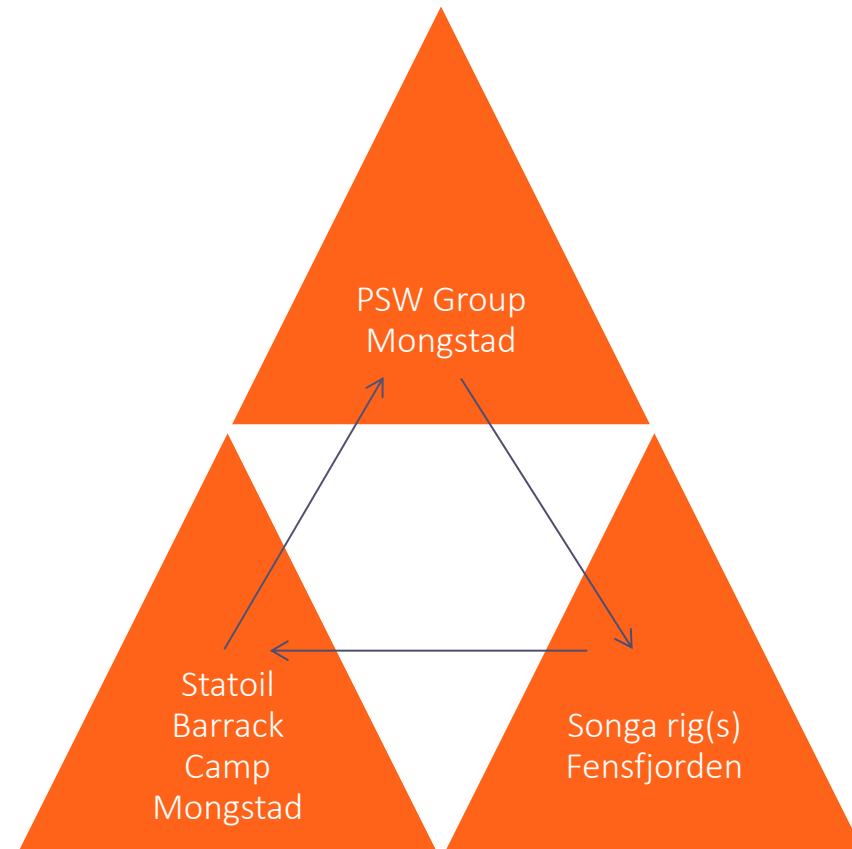


# Songa Offshore Contract



PSW Group together with Semco Maritime will for this contract supply the following services:

- Facilitate for a Fjordstay in Fensfjorden for up to four rigs during the next 12 months.
- Ensure the logistical chain to and from Mongstad
- Accommodate and ensure victualling for all employees both PSW, Semco and Songa Offshore.
- Accommodate for Songa Offshore project team at PSW Group
- Close all punches and close outs on the rig(s) left out since delivery from the DSME Yard.
- Assist with installing 3<sup>rd</sup> party equipment required by Statoil
- Ensure a safe, fully operational and compliant rig(s) for end client Statoil.



\*Alternatively rig quay in Skipavika / Hanøytangen

# Songa Offshore Contract



PSW Group will supply the following services and disciplines onshore and offshore from leaving Korea

Isolation



Scaffolding /yard/rig



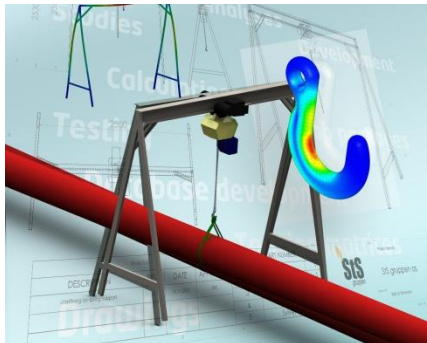
Surface treatment



Mechanical



Engineering & Projects



Access



Pressure habitat



Inspection & NDT



# Fjordstay Timeline

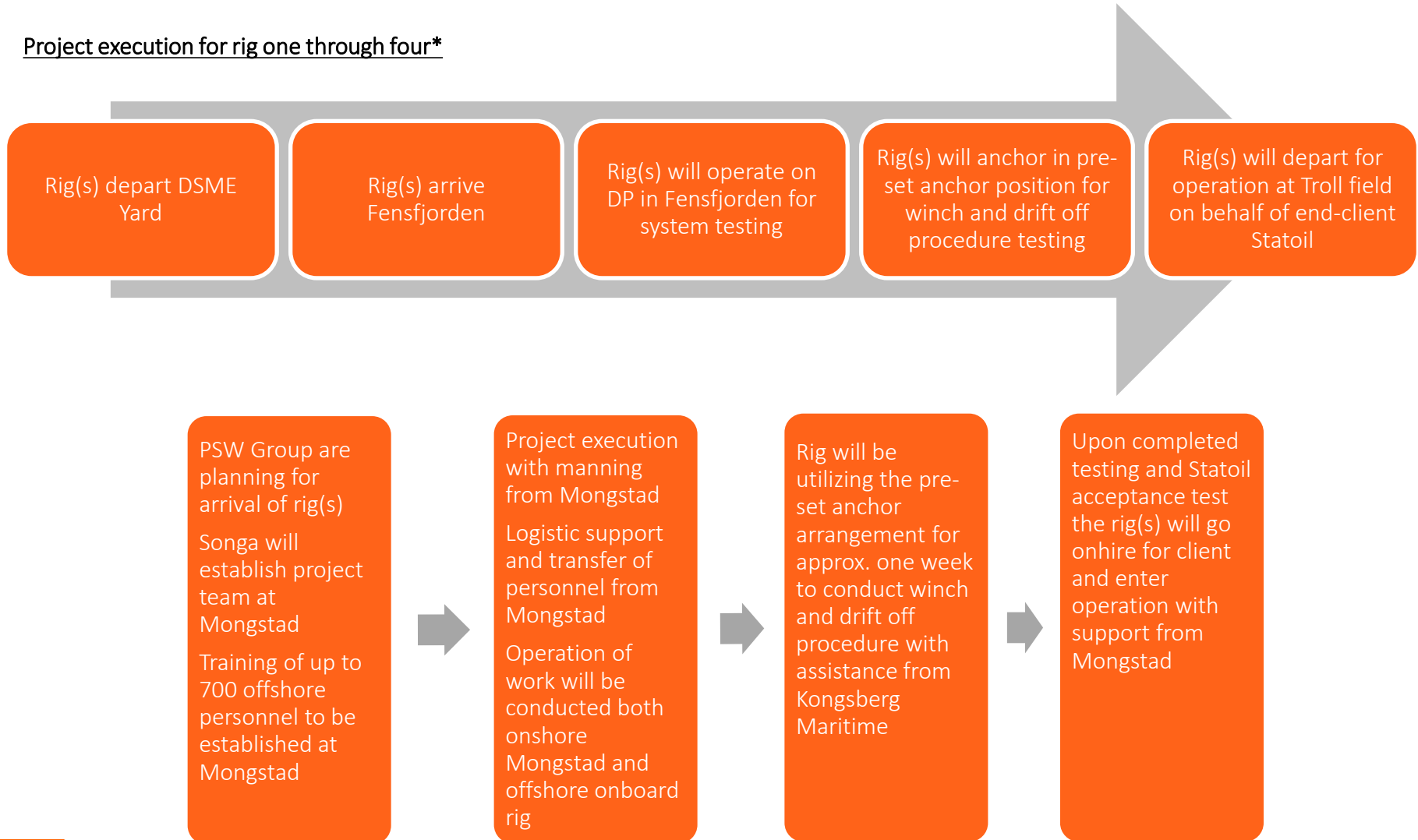


Rig	Arrival	Scope of work	Duration	Sites
Songa Equinox	September-October 2015	Testing and preparation	21-35 days (moored in anchors 7 days)	Fjordstay Fensfjord
Songa Endurance	October-November 2015	Testing and preparation	21-35 days (moored in anchors 7 days)	Fjordstay Fensfjord
Songa Encourage	February – March 2016	Testing and preparation	21-35 days (moored in anchors 7 days)	Fjordstay Fensfjord
Songa Enabler	March – April 2016	Testing, preparation and winterization	30 – 50 days (moored in anchors 7 days)	Yard Hanøytangen and Fjordstay Fensfjord

# PSW Group - Businesses



## Project execution for rig one through four\*



\*Rig number four will be winterized at Hanøytangen prior to arrival in Fensfjorden

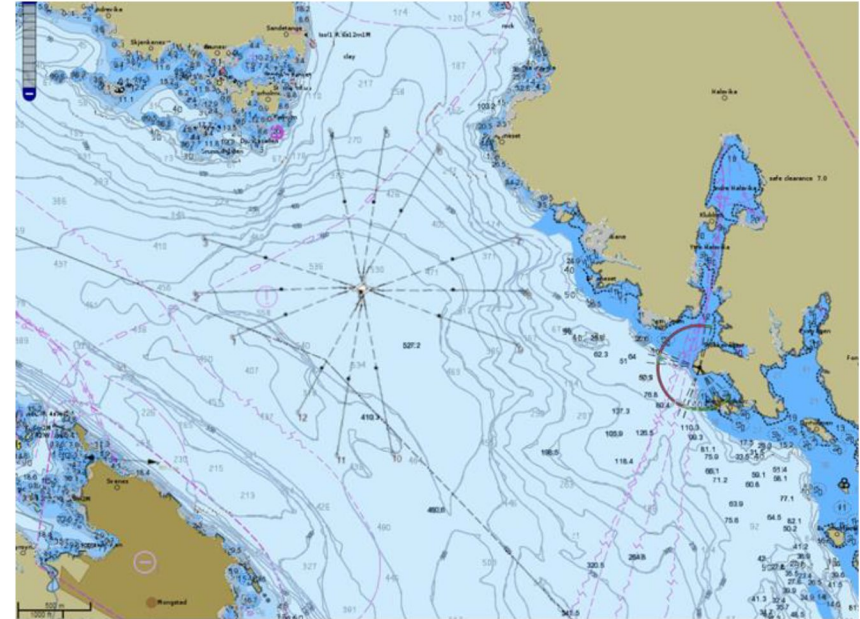


# Fjordstay Fensfjorden



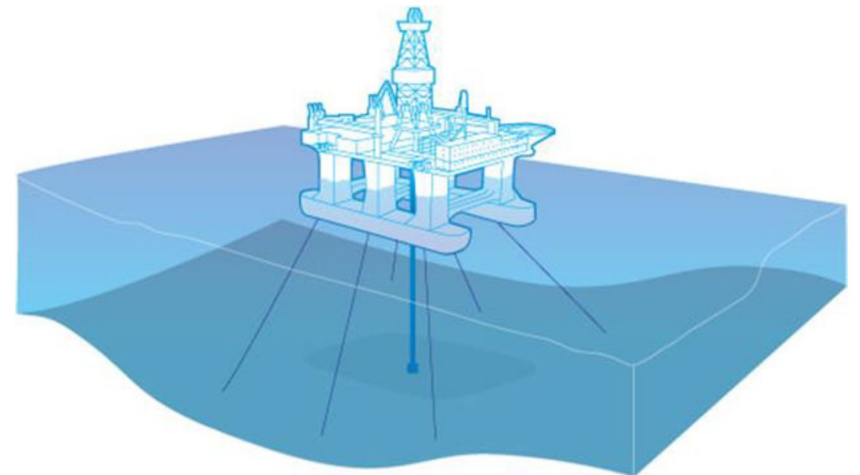
## Prior to rig(s) arrival:

- Meeting between Coastal Authority, emergency response units, Songa and PSW Group conducting QHSE and tabletop exercise for receipt of rig(s)
- Based upon anchor analysis the spread of anchors to be preset in the Fensfjorden.
  - All anchor lines and connection points to be buoyed off and navigation lights will be attached.
  - The pre-set anchor arrangement will be deployed for up to one year allowing all four rig(s) utilizing the same arrangement.



## During rig(s) stay:

- Rig(s) will be moored for about 7 days .
  - Will conduct testing of winches and drift off procedures.
- Remaining days of the fjordstay, the rigs will be on DP (Dynamical Positioning) and operational as a Vessel.
- Logistics to and from rig(s) to be handled from Mongstad with shuttle boats.



# Fjordstay Fensfjorden



During the fjordstay the rig(s) will be operational in Fensfjorden however as an emergency back up and for logistical purposes PSW Group will have the rig quay in Skipavika Yard as a spare option for bringing the rig(s) into port should this be necessary.

- Skipavika Yard has a state of the art newly completed rig quay tailor made for modern rig(s) like Songa Category D rig(s)



While the rig(s) are in Fensfjorden, there will be the following operations going parallel during the project:

- Work packages will be prepared and completed at PSW Group
- Training of offshore personnel at PSW Group and Statoil barrack camp
- Mongstad region and local business will be drawn upon to ensure a cost effective and successful project



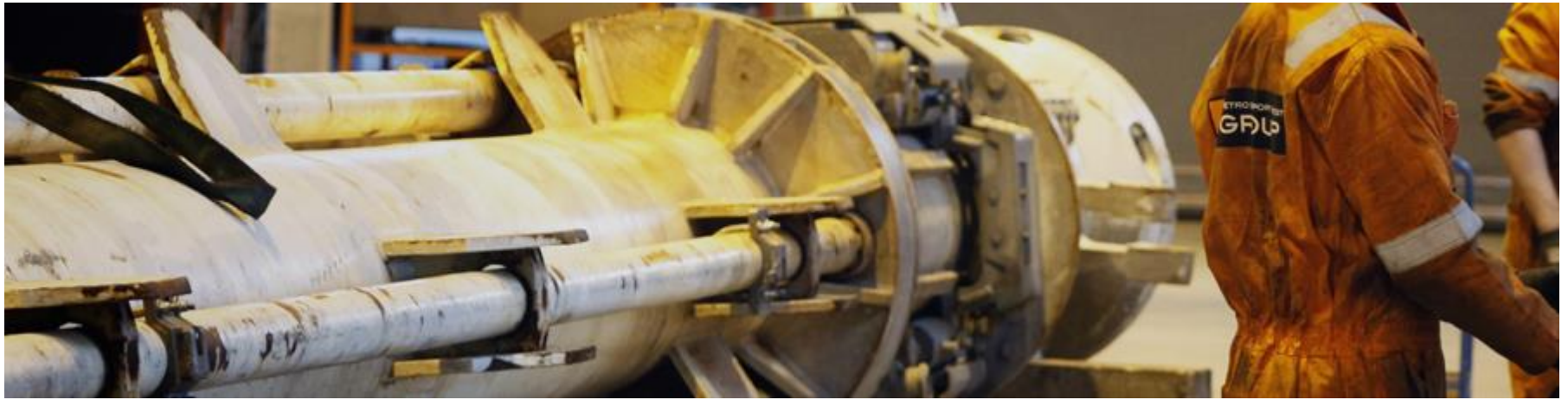
# PSW Group – Track record



Company	Rig / Vessel	Service	Year
NADL	West Navigator	Yard Services	2015 →
Teekay Petrojarl I	Petrojarl Knarr*	ISO	2014
Teekay Petrojarl I	Petrojarl 1	Yard Services	2013 - 2015
Songa Offshore	Songa Delta**	Welding / mechanical	2012
Songa Offshore	Songa Trym**	Mechanical	2012

\* Petrojarl Knarr – Aibel Yard Haugesund

\*\* Songa Delta /Songa Trym – CCB Yard Ågotnes



Thank you for your time!  
PSW Group  
*The way we **move***

**PSW**  
GROUP

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