

2025

Project: **Special Purpose Shallow Draft Jack-up Barge (Pre-FEED)**  
Vessel type: Jack-up barge  
Project #: P122

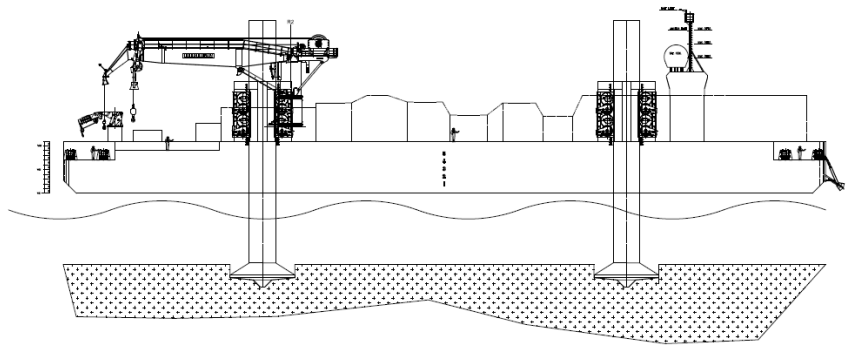


Our scope of work:

Structural Engineering & Naval  
Architecture – Pre-FEED Phase

- General arrangement
- Hull subdivision
- Hull structure
- FEA in elevated and floating mode
- Stability Analysis
- Structural Design Brief
- Weight Calculations
- Jacking System sizing

In partnership with Sofresid/Ekium.



2025

Vessel Name: **Sili Ruz**  
Vessel type: Diving Support Vessel  
Project #: P121



Our scope of work:

Engineering package for installation of  
diving equipment above main deck:

- Arrangement drawings 2D and 3D
- Structural drawings.
- Strength analysis by FEA



2023-2024

Project: **SDDS - Shallow Draft Drilling System**  
Vessel type: Ultra shallow draft Submersible units  
for North Caspian Sea



Our scope of work:

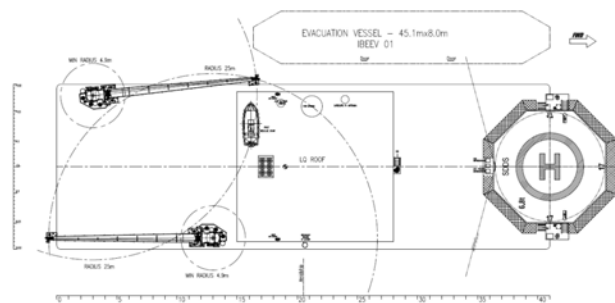
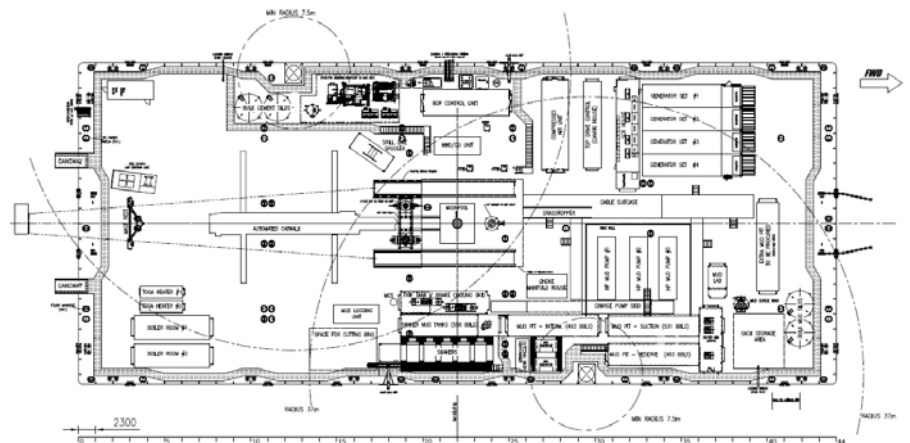
Engineering & project management  
services - FEED Phase

- Preparation of a complete basic design package for both barges including basis of designs, drawings (structural, naval architecture, piping, safety, electrical), multiple strength analysis (global, living quarters, crane pedestals, helideck, etc.), stability analysis, misc. piping calculations, lightship weight. All approved by ABS.

- Preparation of detailed construction specifications

- Organise and manage 2nd round bid to Caspian Sea shipyards for construction of the SDDS.

In partnership with Drillmec from Italy.



## 2024

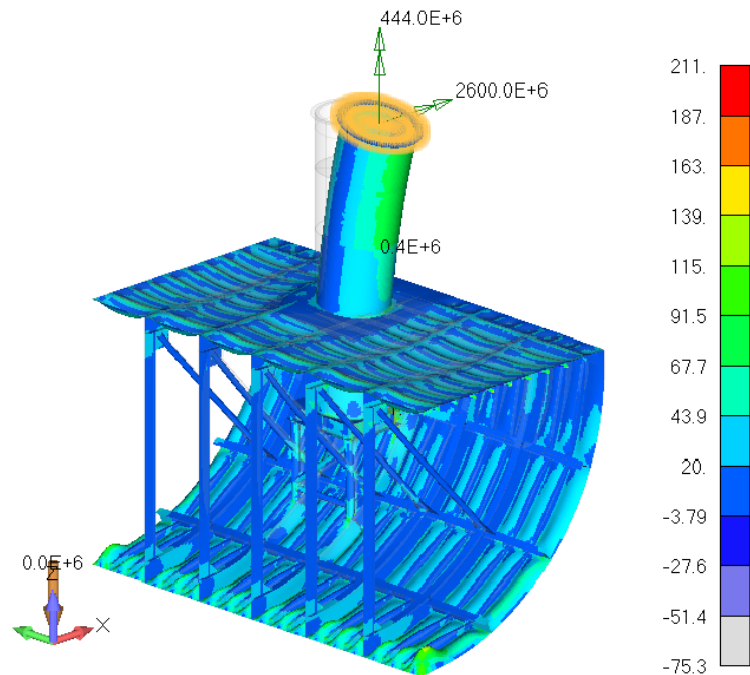
Vessel Name: **Tamesis (Ex Teras Conquest 6)**  
Vessel type: Liftboat  
Project #: P116

D I X S T O N E 

### Our scope of work:

Engineering package for installation of one new crane, including:

- Arrangement drawings 2D and 3D
- Structural drawings for pedestal, boom rests, access platforms and stairs.
- Strength analysis by FEA



## 2023

Vessel Name: **Cobeia**  
Vessel type: Multipurpose construction support vessel  
Project #: P112

D I X S T O N E 

### Our scope of work:

Engineering package for installing two new thrusters including:

- Design of support frames and foundations in hull
- Strength analysis by FEA





## 2023

Vessel Name: **MOPU Caturix**  
Vessel type: Mobile Offshore Production Units  
Project #: P111



### Our scope of work:

Engineering package for installation of 2 new cranes, including:

- Arrangement drawings 2D and 3D
- Structural drawings for pedestal, boom rests, access platforms and stairs.
- Strength analysis by FEA



## 2023 - 2024

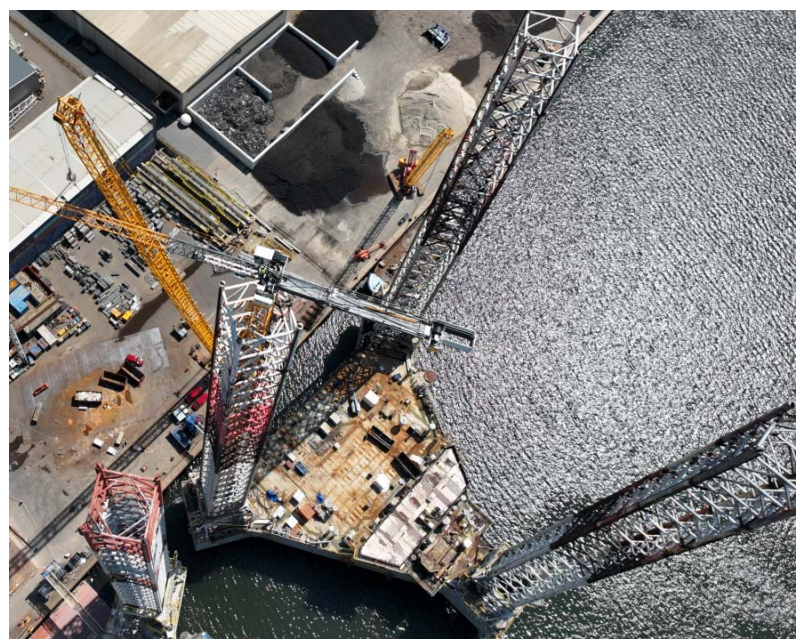
Vessel Name: **MOPUs Caturix, Glanis, Magniacus**  
Vessel type: Mobile Offshore Production Unit  
Project #: P110, P115, P117



### Our scope of work:

Three engineering packages for installing a tower crane inside jack-up leg, including:

- Design of support frame with access platforms
- Strength analysis by FEA



**2023-2024**

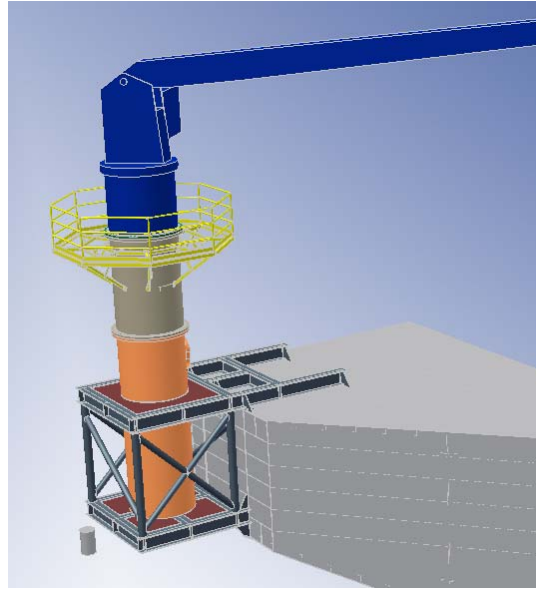
Vessel Name: **MOPUs Dagda, Moccus, Meldius, Folda**  
 Vessel type: Mobile Offshore Production Units  
 Projects #: P109, P113, P114, P118



Our scope of work:

Four engineering packages for installation of cranes using modular pedestal concept.

- Arrangement drawings 2D and 3D
- Structural drawings for pedestal
- Strength analysis by FEA



**2022**

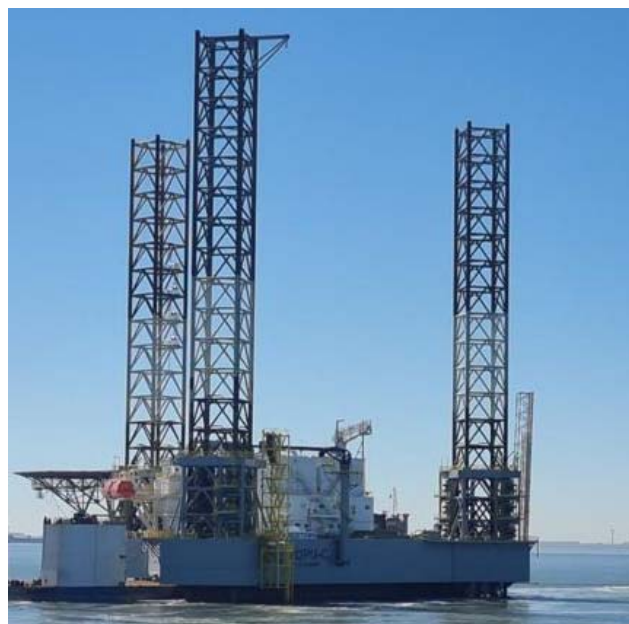
Vessel Name: **MOPU Colga**  
 Vessel type: Mobile Offshore Production Unit  
 Project #: P108



Our scope of work:

Engineering package for installation of 2 new cranes, including:

- Arrangement drawings 2D and 3D
- Structural drawings for pedestal, boom rests, access platforms and stairs.
- Strength analysis by FEA



2022

Vessel Name: **Barge Sili Glaz**  
Vessel type: Diving Support Barge  
Project #: P107

D I X S T O N E 

Our scope of work:

Engineering package for new fairlead installation, including foundation drawings and strength analysis by FEA.



2022

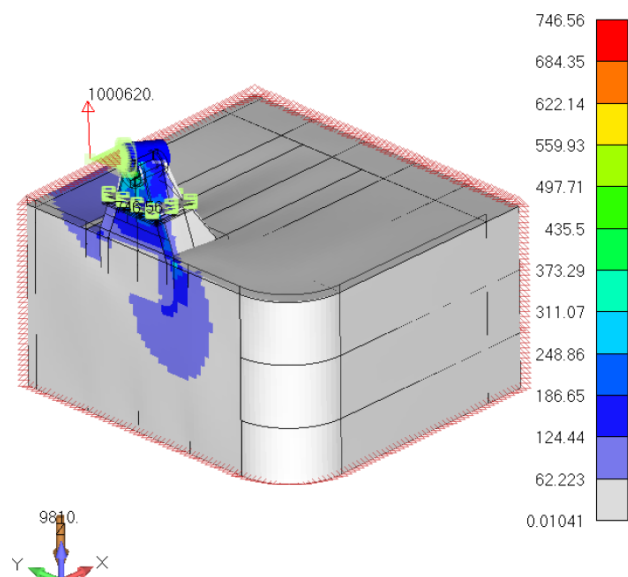
Vessel Name: **Barge BRAN3**  
Vessel type: Diving Support Barge  
Project #: P106

D I X S T O N E 

Our scope of work:

Engineering package for fairlead upgrade, including foundation drawings and strength analysis by FEA.

Output Set: SUPPORT - LOAD CASE #1  
Deformed(5.3501): Total Translation  
Elemental Contour: Plate Top VonMises Stress / Plate Bot VonMises Stress





## 2022

Project Name: **Shallow draft MODU for North Caspian Sea**  
Vessel type: Submersible Drilling Barge  
Project #: P104

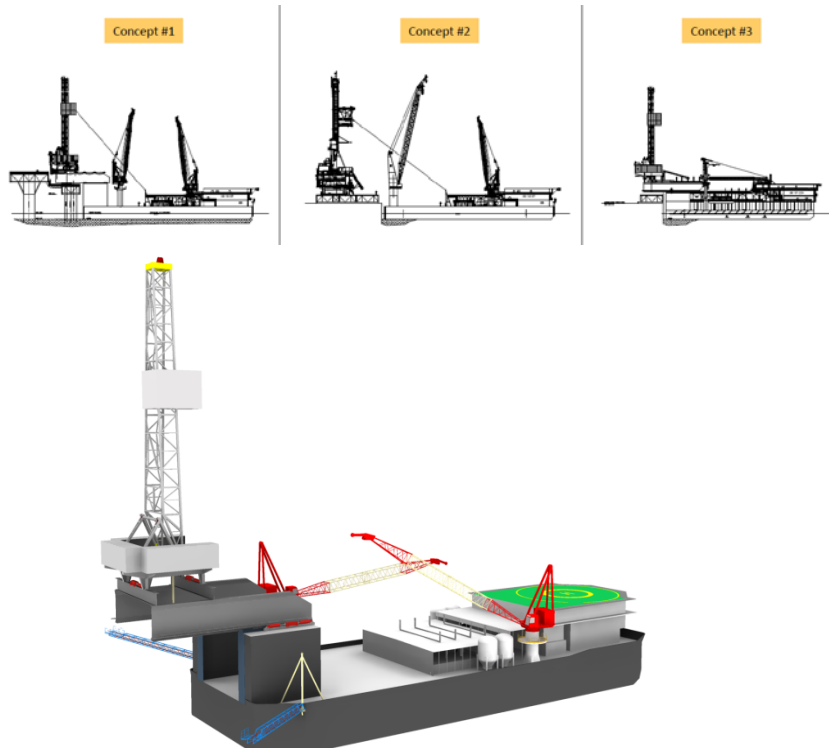


### Our scope of work:

Conceptual studies for a field development rig for small drilling centers:

- Evaluation of 3 MODU concepts
- Basis of design
- General arrangement drawings 2D and 3D
- Conceptual reports including weight / draft calculations, basic specifications, proposed equipment
- Construction costs estimations
- Design and construction schedule

In partnership with Drillmec from Italy.



## 2022-2024

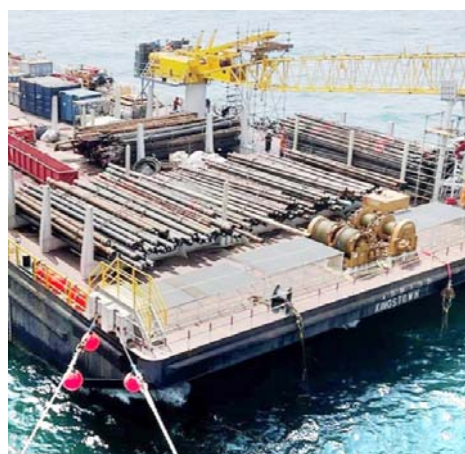
Vessel Name: **Barge ADN130**  
Vessel type: Drilling Support Barge  
Project #: P105



### Our scope of work:

Design of several modifications:

- Engineering package including drawings and strength analysis by FEA for new 8 points mooring fairleads
- Piping schematics for drilling systems
- Engineering package including drawings and strength analysis by FEA for new drilling mud agitators.



## 2022

Vessel Name: **Sianna (Ex Seafox 1)**  
Vessel type: Multipurpose self-elevating unit  
Project#: P102



### Our scope of work:

Multiple engineering tasks during vessel conversion & upgrade, including:

- Design of new crane pedestal
- New stability analysis
- Complete new marine operation manual and updated drawings
- Design of foundations for new generators
- Design of foundations for boat landing platform
- Design of platform for raw water pump spooler
- Strength analysis for leg spud cans and extensions.
- Deck strength analysis



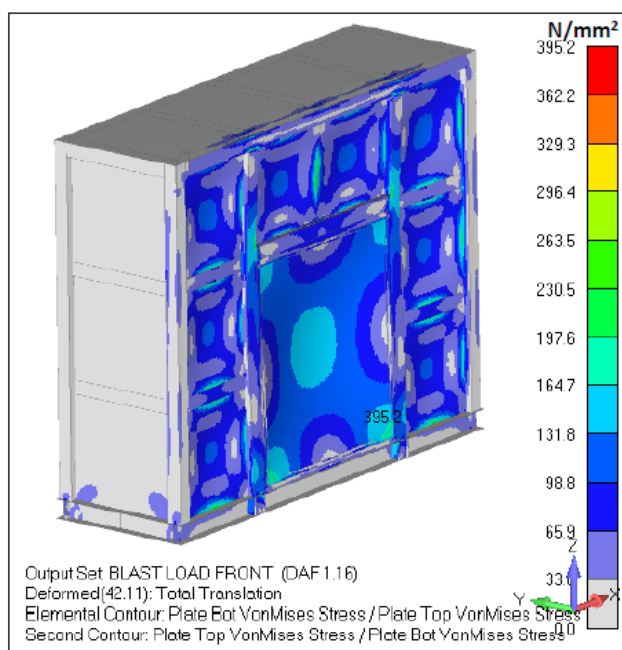
## 2021-2022

Vessel Name: **FPSO Mero 3**  
Vessel type: FPSO  
Project #: P100



### Our scope of work:

Structural design for 12 blast-proof skids with enclosure.





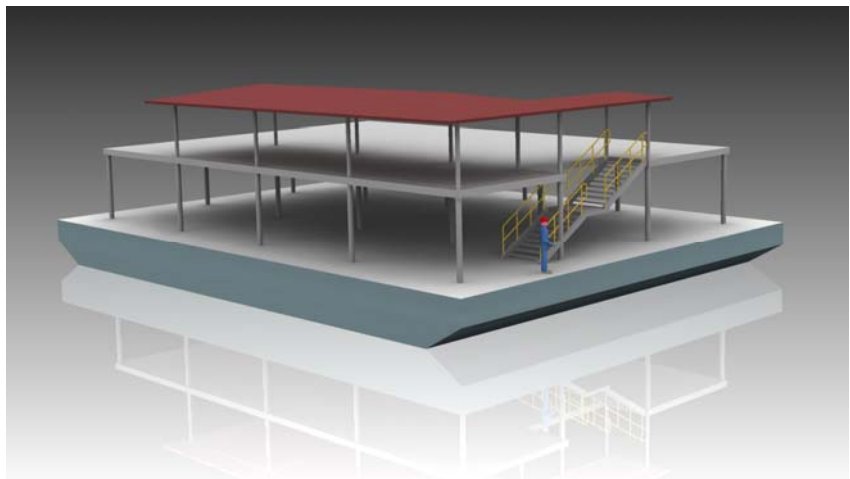
2021

Project: **Floating Bar at Puteri Harbor Marina**  
Vessel type: Pontoon



Our scope of work:

Basic design and scantling calculation for hull structure.



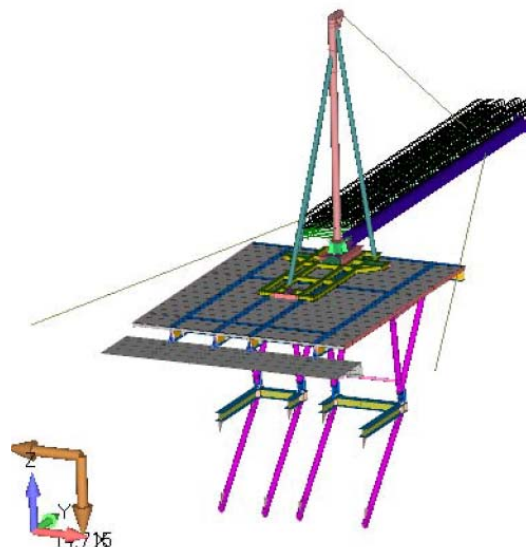
2021

Vessel Name: **Sapura Berani**  
Vessel type: Drilling tender



Our scope of work:

Strength analysis of ROV platform for supporting flare boom.



## 2020

Project: **Floating Pool for luxury condominium**  
Vessel type: Pontoon



Our scope of work:

Conceptual design of hull including stability study, structural strength evaluation by FEA.



## 2020-2024 (on going)

Vessel Name: **Pelaut, Esperanza, Alliance, T11, T12, Jaya, Berani**  
Vessel type: Drilling tenders



Our scope of work:

Multiple DES loading analyses for each specific platform.



## 2020-2021

Project: **SDDS - Shallow Draft Drilling System**  
Vessel type: Ultra shallow draft Submersible units  
for North Caspian Sea



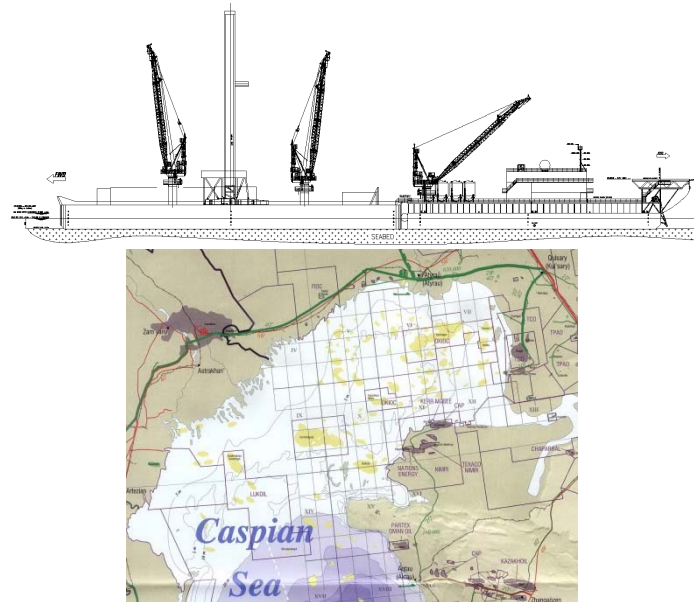
Our scope of work:

Engineering & project management  
services - Pre-FEED Phase

- Preparation of a comprehensive  
technical package including drawings,  
schematics, primary specifications,  
weight estimations, key equipment  
specs.

- Organise and manage 1st round bid to  
Caspian Sea shipyards for construction of  
the SDDS.

In partnership with Drillmec from Italy.



## 2016 – 2020

Vessel Name: **UniMopu**  
Vessel type: production jack-up



Our scope of work:

Conceptual & basic design of the self-  
Installing Platform (SIP).

Main scope:

Preparation of a complete technical  
package and manage tender to shipyards  
for construction of platform and  
integration of top sides.

Additional scope:

Consultancy mission in PNG at the field  
site, onboard drilling jackup. Collect site  
information – geotechnical & operational  
- in view of SIP installation.





2019

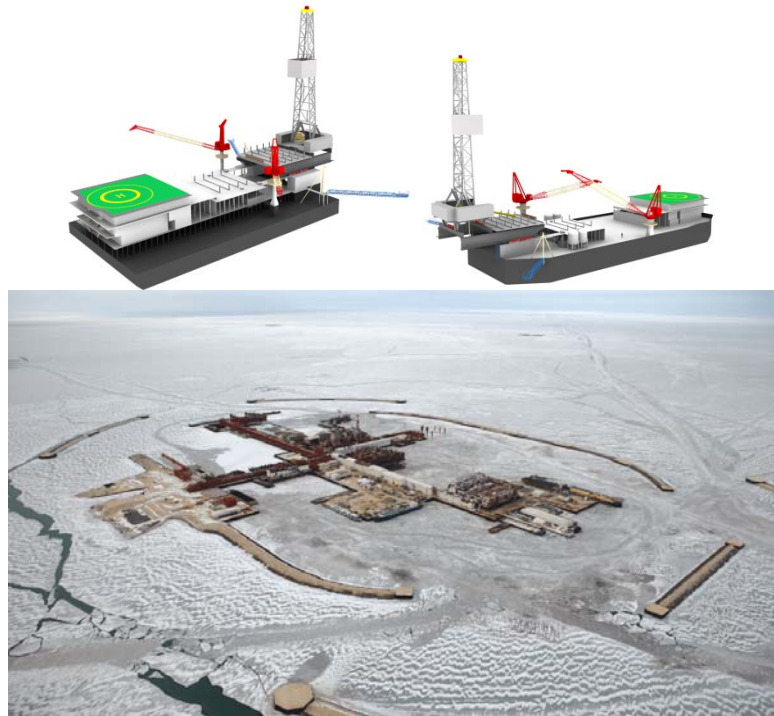
Project: **Ultra Shallow Draft MODU**  
Vessel type: Ultra shallow draft Submersible units  
for North Caspian Sea



Our scope of work:

Evaluation of several submersible MODU concepts potentially suitable for operations in Kashagan field and with a main focus on reducing transit draft to the greatest possible extent.

Engineering work performed in partnership with Drillmec from Italy.



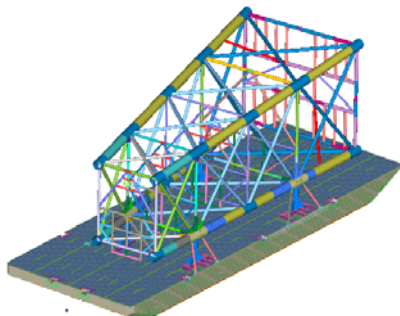
2019

Project: Qatar North Oil Company - **Al Shaheen**  
Subject: Jackets Transportation analysis



Our scope of work:

Extensive Finite Element Analysis for the transport of three jackets on a single Heavy Lift Vessel.



2019

Vessel Name: **Raisis**  
Vessel type: Drilling Swamp Barge (Upgrade)



Our scope of work:

- New Stability Analysis
- New hull global strength analysis
- New Marine Operations Manual.



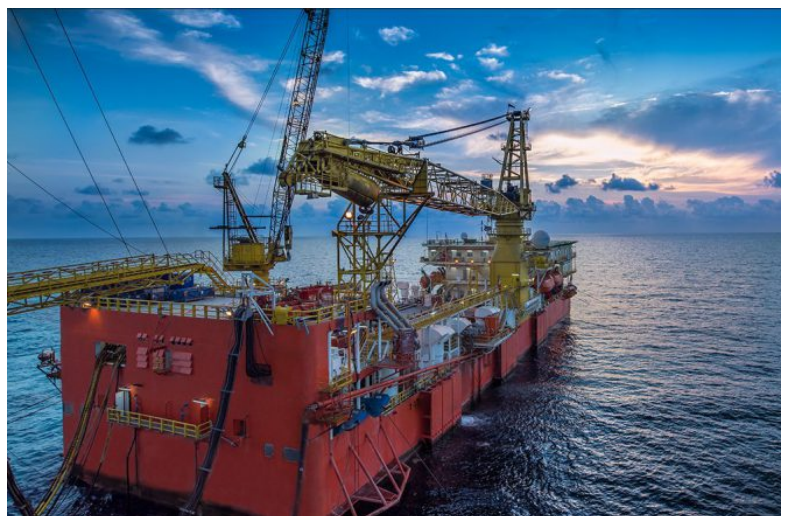
2018-2019

Vessel Name: **Sapura T17 & generic DES**  
Vessel type: Tender assist drilling barge



Our scope of work:

Conceptual studies for DES weight reduction.  
Target weight reduction: 100 MT.



## 2018

Project: **Ultra Shallow Draft MODU**  
Vessel type: Ultra shallow draft jack-ups  
& Submersible units



### Our scope of work:

Evaluation of several MODU concepts potentially suitable for operation in this field and with a main focus on reducing transit draft to the greatest possible extent.



## 2016 – 2017

Vessel Name: **KAOMBO**  
Vessel type: FPSO  
Shipyard: GPC Abu Dhabi & Sembawang Shipyard



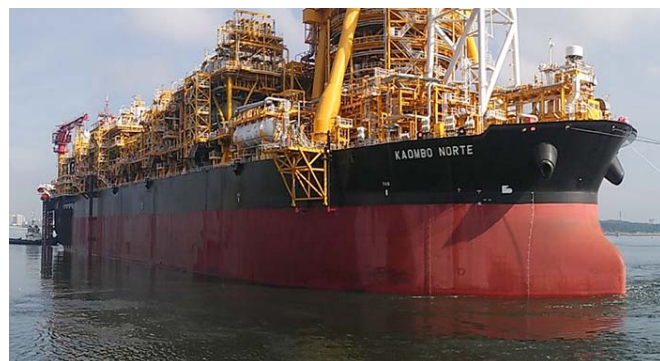
### Our scope of work:

Scope #1:

Engineering consultancy (Naval architecture / Structural engineering) for turret loadout operation.

Scope #2:

Engineering consultancy  
Structural design verification – FPSO hulls, topsides structures, turret, mooring & weight control.





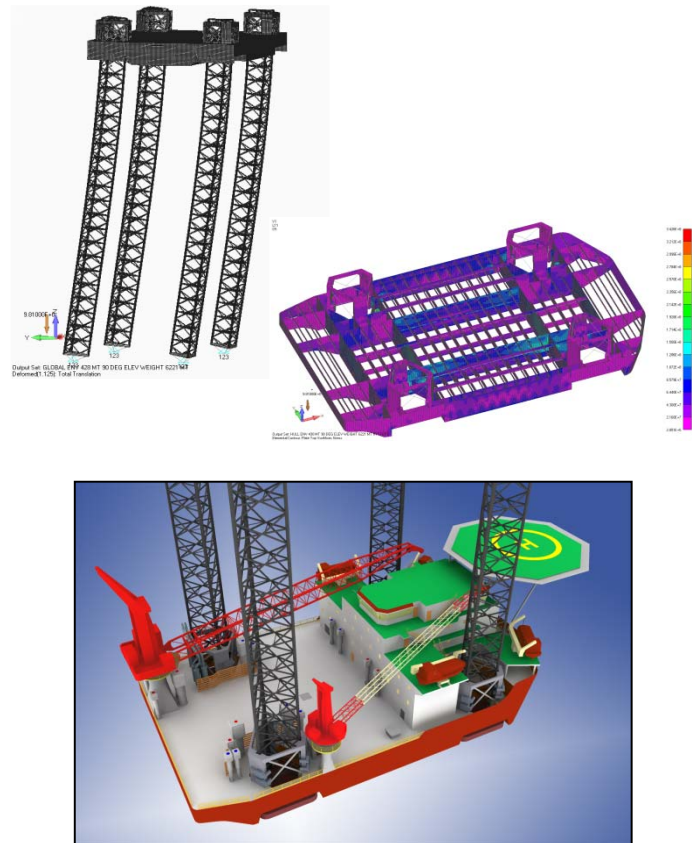
## 2015

Vessel Name: **MPJ 328 Buffalo Class**

Vessel type: Multi-purpose self propelled self-elevating unit (Liftboat)

### Our scope of work:

"in House" Basic Design Package (Global strength, leg design, main scantling stability, general arrangement, accommodations)



## 2015

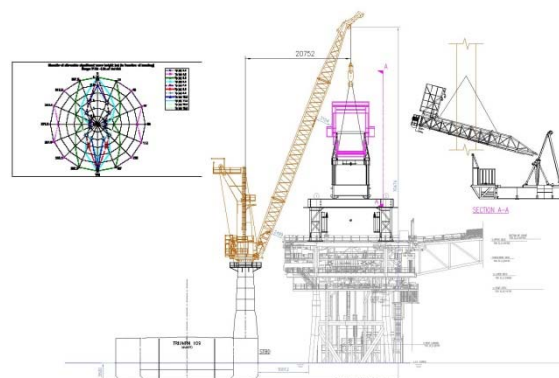
Vessel Name: **Triumph 109**

Vessel type: Tender assist drilling barge

**TRIUMPH DRILLING**

### Our scope of work:

Engineering services: Stability and lifting analysis for DES rig up.



2014 / 2015

Vessel Name: **TD7000**

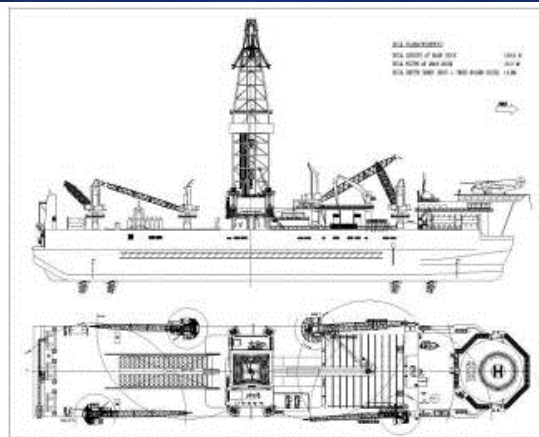
Vessel type: Ultra deepwater compact drillship – New Build

Our scope of work:

Complete “in House” Basic Design Package (Structure, stability, hydrodynamics, general arrangement, accommodations, drilling systems)

Development of constructions specification.

Enquiries for main equipment. Cost analysis.



2014

Vessel Name: **ICHTHYS - FPSO**

Vessel type: FPSO

Shipyard: Keppel Shipyard



Our scope of work:

LOWER TURRET SKIDDING OPERATION

Engineering consultancy for loadout operation (Naval architecture / Structural engineering)



2013 / 2015

Customer: **Mena Offshore Investments Ltd**

Vessel Name: **Explorer I**

Vessel type: Jack-Up Drilling Rig (LeTourneau Super 116E)

Shipyard: YZJ Offshore (Shanghai)



Our scope of work:

Review and adjustments to Construction Specifications before signature with builder.

Owner Representative & technical adviser during engineering and procurement phase. Multi-disciplinary team provided:

- Rearrangement of hull tanks
- Conceptual arrangements of shaker house, drill floor, cantilever, helideck, living quarters, Mud mix room and other various areas.
- Assist / advise Builder for design of all rig systems (piping, HVAC, electrical)
- Assist Builder for drilling equipment selection.
- Review and approval of all purchased equipment.
- Review and approval of all detail design drawings.





2012

Customer: **GSP Offshore– Grup Servicii Petroliere**

Vessel Name: **GSP Venus**  
Vessel type: Ultra Deepwater Drillship – New Build  
Shipyard: TBD



Our scope of work:

Review of contractual construction specifications and clarification meeting with potential builder.



2012-2013

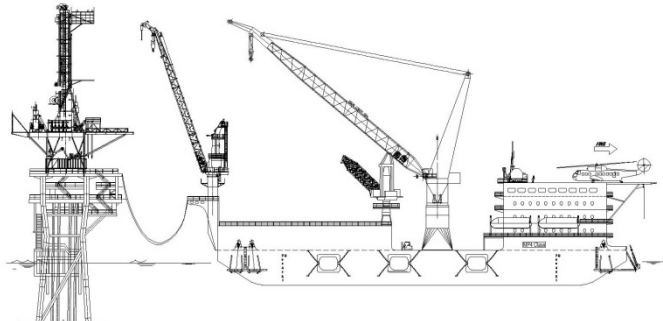
Customer: **Triumph Drilling / Sungjin Geotec**

Vessel Name: **Triumph T650**  
Design model: Moonpool **MP4**  
Vessel type: Tender assist drilling barge

**TRIUMPH DRILLING**

Our scope of work:

Conceptual design for new built Tender Barge type "MP4".



**2012**

Customer: **Triumph Drilling**

Vessel Name: **Triumph 109 (Ex Searex 9)**  
Vessel type: Tender assist drilling barge  
Shipyard: ST Marine, Singapore

**TRIUMPH DRILLING**

*Our scope of work:*

Complete Basic Design Package for jumboisation project.

- Conceptual design, including hull resizing, new shape.
- Structural design hull and heavy lift crane pedestal
- Motion analysis
- Mooring analysis
- Strength and various FEA analysis.
- Deck layout with D.E.S.
- D.E.S. lifting studies.
- Anti-heel fast ballasting system and associated piping

All classed approved by ABS.  
Marine operation manual update.



**2010/2012**

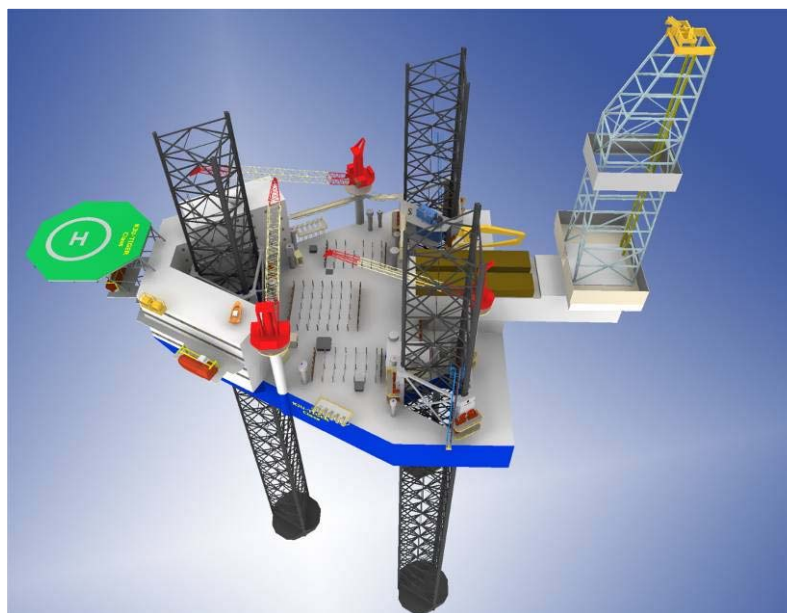
Customer: **Sungin Geotec (Posco Plantec)**

Vessel Name: **KJU Tiger Class**  
Vessel type: Jack-up Drilling rig – New Build  
Shipyard: Sungin Geotec

**SUNG JIN**  
posco Family

*Our scope of work:*

Complete "in House" Basic Design Package,  
Complete set of construction specifications,  
Obtained design class approval,  
Detail equipment specifications,  
RFQs for long lead items.



2012

Customer: **Transocean**

Vessel Name: **Actina**

Vessel type: Semisubmersible drilling unit

Shipyard: Sembawang shipyard for modification



Our scope of work:

Performed survey onboard the vessel.  
Designed complete rearrangement of the  
mud treatment system



2010/2011

Customer: **Marina Technology and Construction**

Project Name: **Floating hotel structures,**

Location: Marina bay, Singapore



Our scope of work:

Complete basic and detail design package  
for hull and superstructures





2010

Customer: **Pacific Drilling Inc.**

Vessel Name: **Pacific Bora**

Vessel type: New ultra deepwater drillship

Shipyard: Samsung Heavy Industry



Our scope of work:

- 1) Engineering support & project management : post delivery modifications and improvements.
- 2) Participation in the Hazop session.



2009/2010

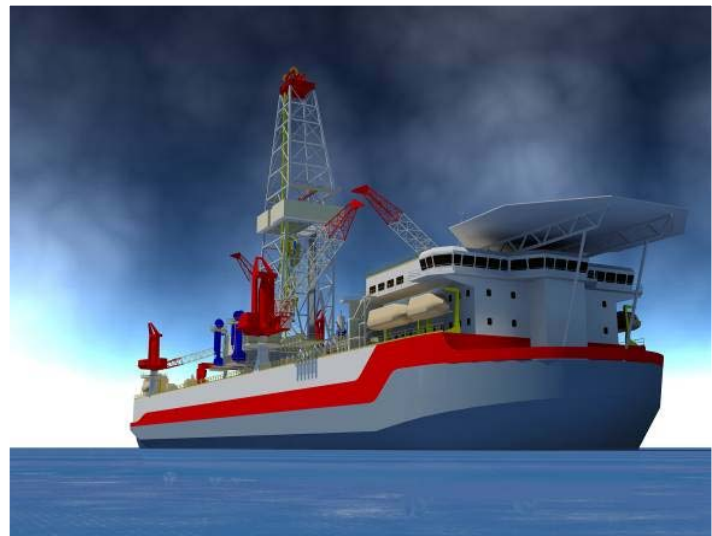
Vessel Name: **Tropical Driller**

Vessel type: Ultra deepwater compact drillship – New Built

Shipyard: TBD

Our scope of work:

Complete “in House” Basic Design Package (Structure, stability, hydrodynamics, general arrangement, accommodations, drilling systems)



**2009**

Customer: **Songa Offshore**

Vessel Name: **Songa Mercur**  
 Vessel type: Existing Semi-submersible  
 Shipyard: N/A



Our scope of work:

- 1) New stability analysis IMO Modu & DNV.
- 2) Complete New Marine Operations Manual up to class approval.
- 3) Structural FEM analysis of upper deck under special loading conditions.
- 4) Derrick modification & installation of new top drive (Engineering & project management).



**2009**

Customer: **Transocean**

Vessel Name: **Transocean Legend**  
 Vessel type: Existing Semi-submersible  
 Shipyard: At anchorage in Malaysia



Our scope of work:

- 1) On site project management for miscellaneous repairs & modifications.
- 2) Misc engineering studies:
  - FEA analysis of lifeboat platforms
  - Mechanical engineering for new iron roughneck
  - Design of retractable BOP umbilical sheaves
  - Feasibility study for mooring winches central control console
  - Feasibility study for installation of Weatherford stabbing arm.
  - Engineering study for installation of telescopic stabbing basket.
  - Misc. electrical engineering studies.



**2006-2008**

Customer: **Swiber & Black Gold Drilling**

Vessel Name: **Equatorial Driller**

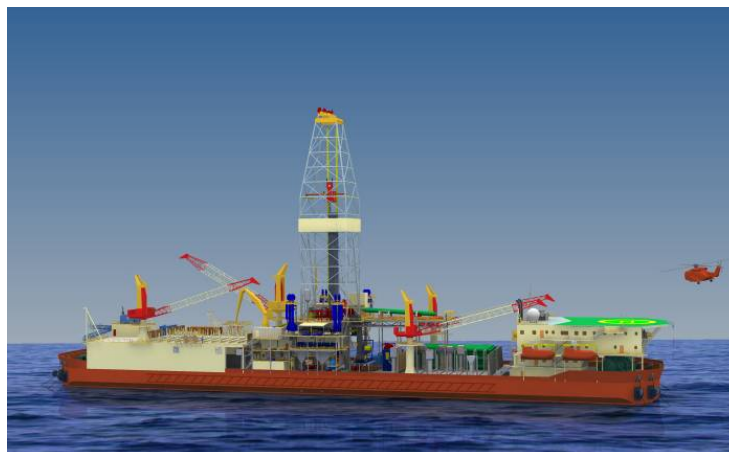
Vessel type: Deepwater drilling barge – New Built

Shipyard: TBD



Our scope of work:

Complete “in House” Basic Design Package,  
 Complete set of construction specifications,  
 Obtained design class approval,  
 Shipyard preparation,  
 Project management,  
 Detail equipment specifications,  
 Procurement of long lead items.



**2004-2007**

Customer: **PT Apexindo**

Vessel Name: **Soehanah**

Vessel type: Jack-up drilling rig – New Built

Shipyard: PPL Singapore



Our scope of work:

Shipyard preparation, construction specifications.  
 Drill floor & BOP handling new conceptual design. Personalized vessel arrangement.  
 Construction supervision from engineering to commissioning and vessel delivery.

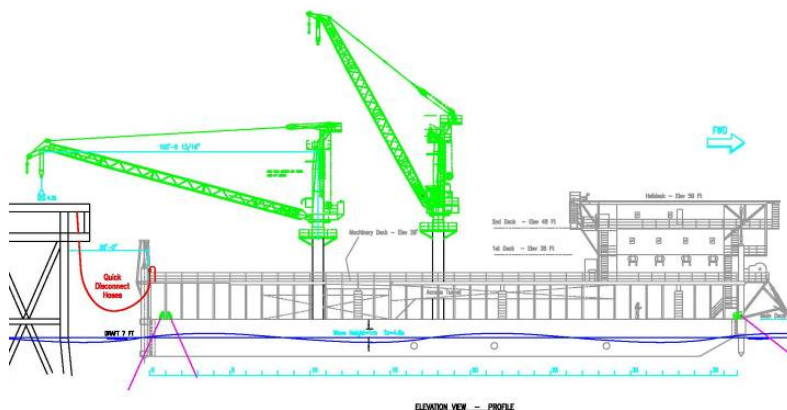




Customer: **PT Apexindo**



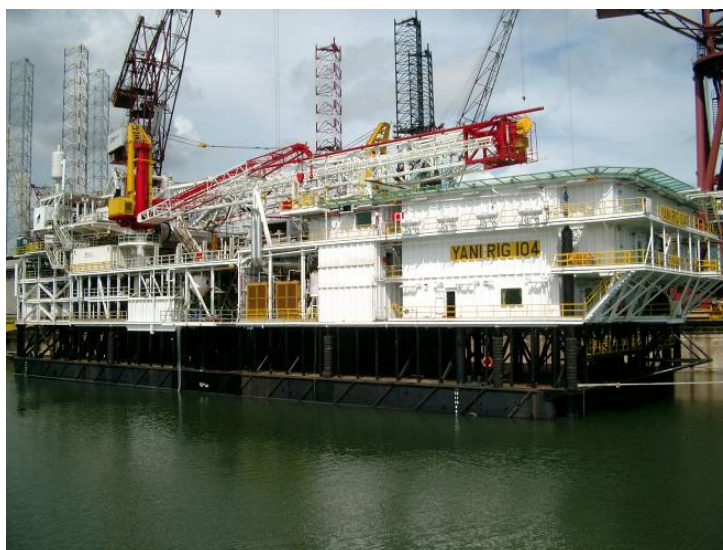
Engineering package for conversion of existing  
swamp barge into a multi-purpose vessel.  
Studies for conversion as tender assisting  
workover drilling vessel.  
Preparation of Shipyard scope of work.



Customer: **PT Apexindo**



Basic Design  
Construction specification  
Construction supervision from engineering to  
commissioning and vessel delivery.



2002-2003

Customer: **PT Apexindo**

Vessel Name: **Maera**

Vessel type: Cantilever Drilling Swamp Barge - Major Conversion

Shipyard: Keppel Fels, Singapore



Our scope of work:  
(With PROTOMAX Ltd)

Basic Design  
Construction specification  
Construction supervision from  
engineering to commissioning and vessel  
delivery.



2002-2003

Customer: **PT Apexindo**

Vessel Name: **Raissa**

Vessel type: Cantilever Drilling Swamp Barge - New Built

Shipyard: Keppel Fels, Singapore



Our scope of work:  
(With PROTOMAX Ltd)

Basic Design  
Construction specification  
Construction supervision from  
engineering to commissioning and vessel  
delivery.

