



Rig Name: Paul B. Loyd Junior

Rig Type: semi-submersible

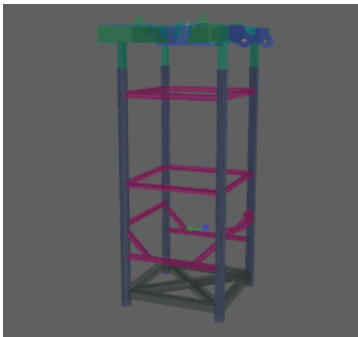
Owner name: [Transocean Ltd.](#)

Classification Society: [DNV](#)

Code design: ASD

(WSD method)

[Click below to see model 3D!](#)

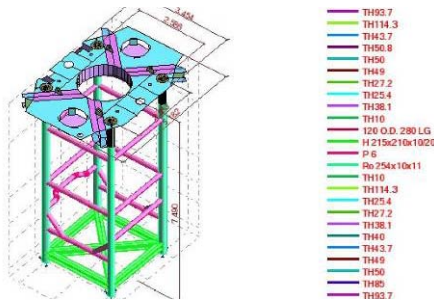


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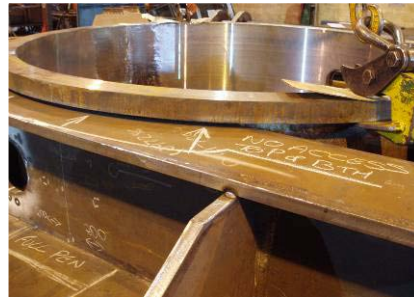


Project description: Rig Engineering (RE) was tasked by Transocean Inc. (TOI) to undertake and provide all the necessary engineering and design services to redesign a new receiver plate for BOP in readiness for 2010 Shipyards. This new plate is required to accommodate new mini collet choke and kill stabs, improve load sharing between the upper and lower bucket framings and allow for the annular to be extracted from the top side of receiver plate instead of existing bottom entry and exit.

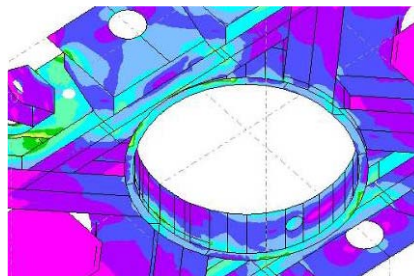
FEA Model



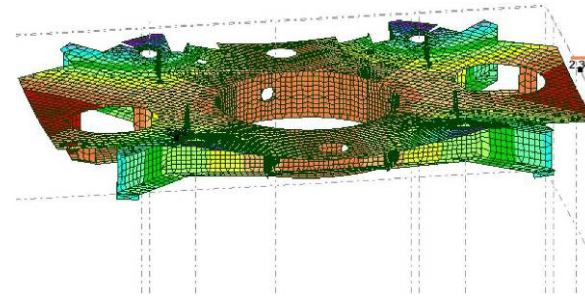
3D View of Model



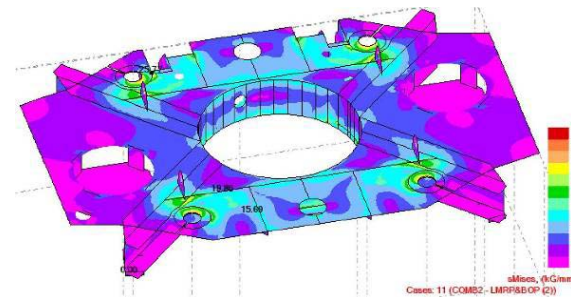
Picture of New Receiver Plate



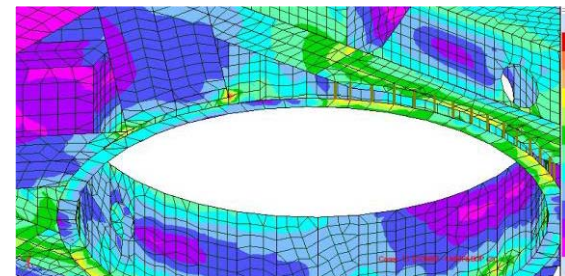
Receiver Plate Stress Plot – Bottom View



Deformation Plot



Receiver Plate Stress Plot – Top View



Receiver Plate Stress Plot – Bottom View

R.E. scope of work

Confirmatory site survey of existing construction was done to establish as built of the receiver plate against those in subsea manual ahead of following tasks below. These were:

- 1) Additional modification was done on the new receiver plate to allow for the Cameron Iron Work (CIW) annular BOP to be pull through the central opening on the top part of the receiver plate.
- 2) To provide provision on the receiver plate to receive CIW mini collet connectors replacing existing choke and kill stab on the receiver and stab plates.
- 3) Provide a full set of revised BOP drawings conforming to TOI standards showing stacked up height of BOP and general description. New arrangement of frame and structural supporting system construction of the BOP was also provided.

Engagement Condition

Upload your problem to us and give us relevant input to allow us to resolve your problem, we will need:

1. As-built drawings to create 3D model
2. Weight and centre of gravity of BOP components.