**Project description:** Conversion of conventional tanker into a Floating Production Facility by installing patented Tri Catenary Mooring System (TCMS) and export riser facility at the bow. TCMS system is based on Mooring Systems Limited (MSL).

**R.E. scope of work**
Rig Engineering (RE) has been tasked by Mooring Systems Ltd. (MSL) to assist with installing MSL Tri Catenary Mooring System (TCMS) and bow modification to allow for the handling of the chain and riser export system. Various structural modelling and strengthening have been done to accommodate the dead man anchor, surge connector, chute and gantry system for chain and export riser handling. This conversion work was done on the American Bureau of Shipping (ABS) classed vessel, DIDON, into a Floating Production Facility. All submittal to ABS has been done on behalf of MSL Limited and consisting of FEA, installation drawing and technical support during the entire shipyard period until the vessel successfully hook up with pre laid TCMS ground chain and the oil is in full flow.

**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 of structure to create 3D FEA model.
2. Static and environmental loads of tanker and mooring system.

Key word: Rig Engineering, Tri Catenary System, TCMS, Mooring Systems Limited, MSL, bow modification, DIDON, PA Resources,export riser, tanker dead man anchor, mooring chain surge connector, floating production facility, tanker