

Senior Design Project Description for FALL 2016

Project Title: Pemco Oil Well Service Rig Stabilization (PEMCO_STAB)

Supporter: Pemco

Supporter Technical Representative: ASSIGNED

Faculty Mentor: ASSIGNED TBD (check one)

Single Team Dual Team (check one)

Personnel (EN/ET): E, Cp, Cv, 1 M, SE

(Complete if the number of students required is known)

Expected person-hours: (250 per student)

Description of Project:

The objective of the project is to come up with a way to safely use a well service rig for maintenance of an oil well without using the current ground anchors. Being able to safely operate a well servicing rig without using ground anchors is the way of the future for oil well servicing.

Initial Project Requirements (e.g. weight, size, etc.):

The activity associated with this project includes the analysis of a current well service rig, mast, and associated forces, as well as designing an alternative means of stabilizing a well service rig that does not require the use of ground anchors. The design of the system will be documented and drawings will be produced.

Expected Deliverables/Results:

Deliverables will include:

1. Documentation and drawings of the design.
2. Model of the design (not to scale)

List here any specific skills or knowledge needed or suggested (If none please state none):

Technical understanding of oil rigs