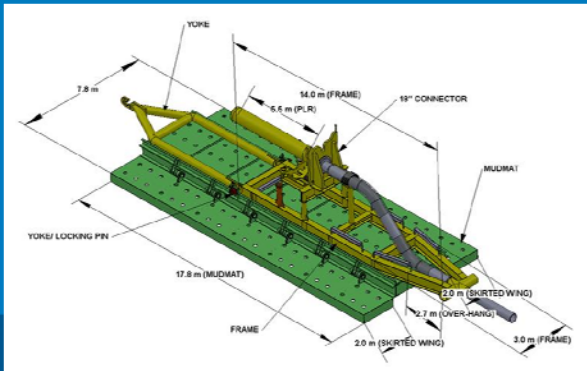


PROJECT:

Ichthys URF In-Line Structures

under-promise
over-deliver



CLIENT:
Intecsea/ McDermott
LOCATION:
Ichthys URF Development
DATE:
2012



Linch-pin personnel were seconded in to Intecsea to lead a multi-discipline team of Engineers and Draftspeople on the Ichthys URF project. As part of that work conceptual designs for 10 different In-line Structures were developed. Three 18" flowlines and two 12" condensate lines traversed the large subsea field. This meant that there were a diverse range of soil conditions for each of the In-line structure sites. This, coupled with some tight limitations on weights and sizes to install the structures through Heerema's Aegir vessel moonpool, meant that almost every structure had to be optimised. Some had integral fixed mudmats. Some had folding wings and some had to have the mudmats installed separately. A range of ideas and options were evaluated in an effort to ensure that as many structures were installed via the moonpool with integral mudmats and sleds as possible. A very compact hinge was utilised for the mudmats to reduce the size of the structures.

Due to the J-lay operation, the 1st end structures were also required to be hinged. This enabled the lay down of the 1st end FLET with minimal tension in the line.

