

## TRENCHER PLOUGH FEASIBILITY STUDY WOODSIDE OFFSHORE PETROLEUM

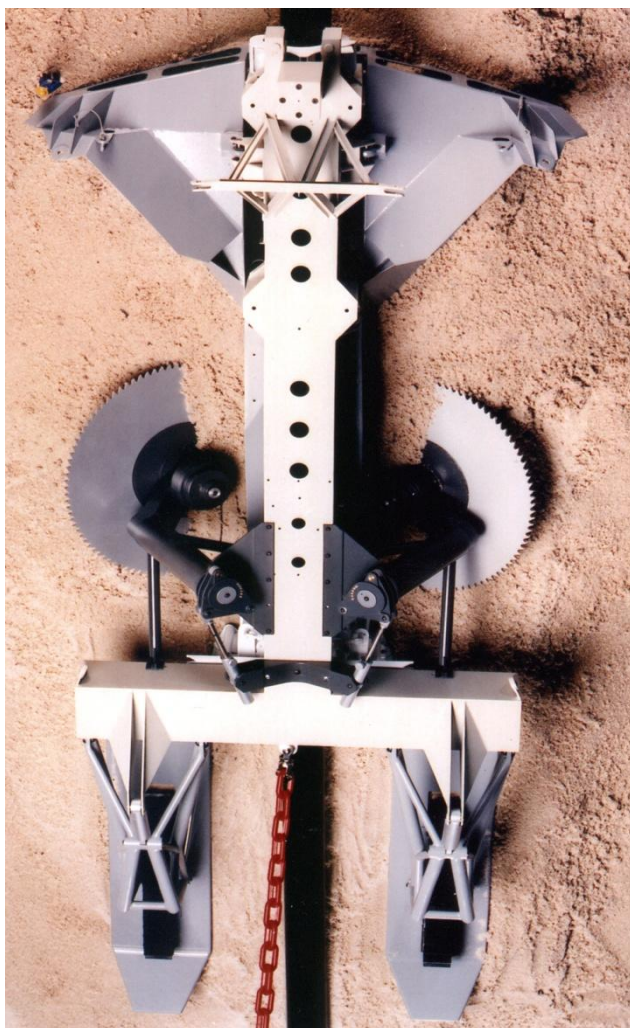
Woodside Offshore Petroleum

### General

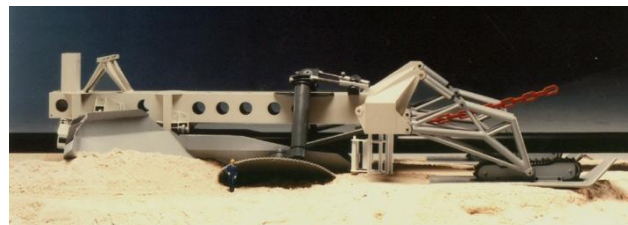
This study was undertaken for Woodside / Brown & Root - Kenny in 1997/98. The study addresses trencher and plough options for stabilising the proposed 42" second trunkline. Trenching machine options are being considered due to the existence of cap rock, which cannot be ploughed over a large proportion of the route. The concept proposed, utilises two powerful cutter slicers, which precede the plough and allow the material to be removed by the plough section.

This project was carried out in conjunction with KIRK Engineering Consultants and other specialist sub-consultants.

The first stage of this work was completed in 1997. The second stage of the study which involved model testing the rock cutting principles was undertaken in 1998.



**Plan View of Model Trencher Plough**

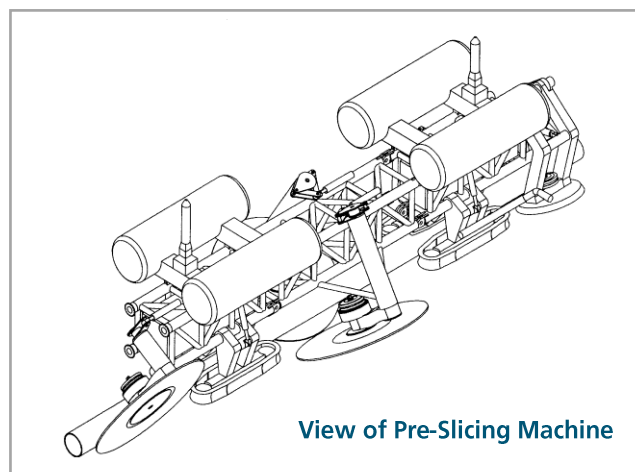


**Elevation of Trencher Plough**

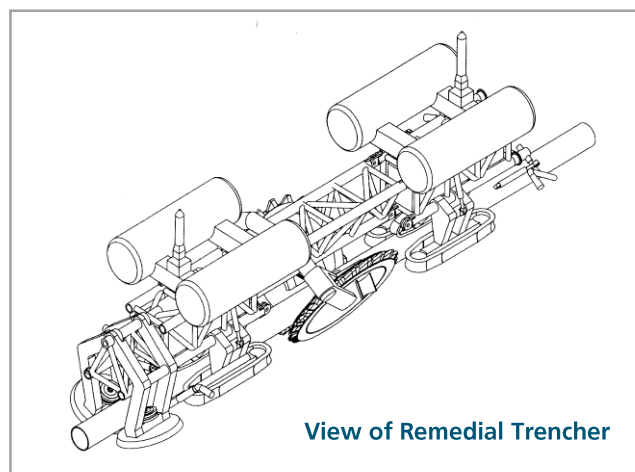
The above machine would utilise about 1MW to drive the large cutting wheels and would weigh between 300 and 400 tonnes. It is designed to cut up to 4km/day.

### Alternative Options

Alternative stand-alone machines to carry out the pre-slicing or remedial trenching were also developed to concept stage.



**View of Pre-Slicing Machine**



**View of Remedial Trencher**

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