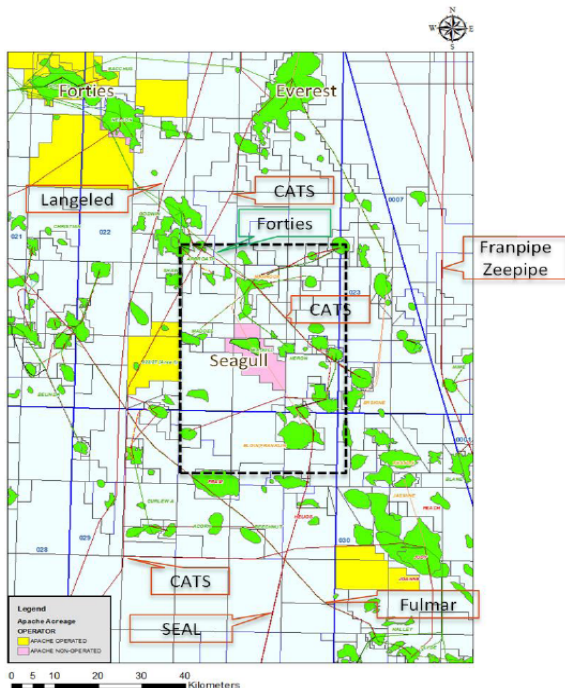




<b>Infinity:</b>	Engineering
<b>Client:</b>	Confidential E&P
<b>Project:</b>	Field Development
<b>Scope:</b>	Concept Verification & Pre- FEED

### Background

The field discovery, a high pressure, high temperature (HP/HT) oil accumulation is located 17 km south from one of Infinity’s confidential E&P client’s production facilities. The field is jointly owned by three confidential E&P clients and lies in a water depth of approximately 90m.



### Challenge

Infinity were requested to review the findings of the technical feasibility and concept screening studies for the field production tie-back to the selected host platform.

The scope included three concepts:

- Concept 1: Direct tie-back to third party topsides via existing riser for production and a new wash water riser pulled through a conductor slot.
- Concept 2A: Subsea tie-in to existing Cluster, at option A) manifold for production and wash water.
- Concept 2B: Subsea tie-in to the existing Cluster, at option B) manifold for production and wash water.

All three cases required a new umbilical to be pulled through an existing spare J-tube and involve using the existing test separator as the dedicated reception vessel.

### Solution

Infinity executed the verification and pre-FEED with a team of production assurance (flow assurance & process) and development engineers. Infinity were able to highlight the benefits, from a production assurance perspective, for each concept. The best available concept was identified, presented to the partners and the FEED basis of design prepared.

Infinity’s approach to production, process and flow assurance goes beyond running simulation models. Through extensive engineering experience available in-house, Infinity were able to provide a holistic approach to the project by helping the client define the best approach to the FEED stage of the project.

Infinity were able to provide support to the client by defining an optimum timeline and schedule for each discipline to be involved in the subsea and topsides FEED.

