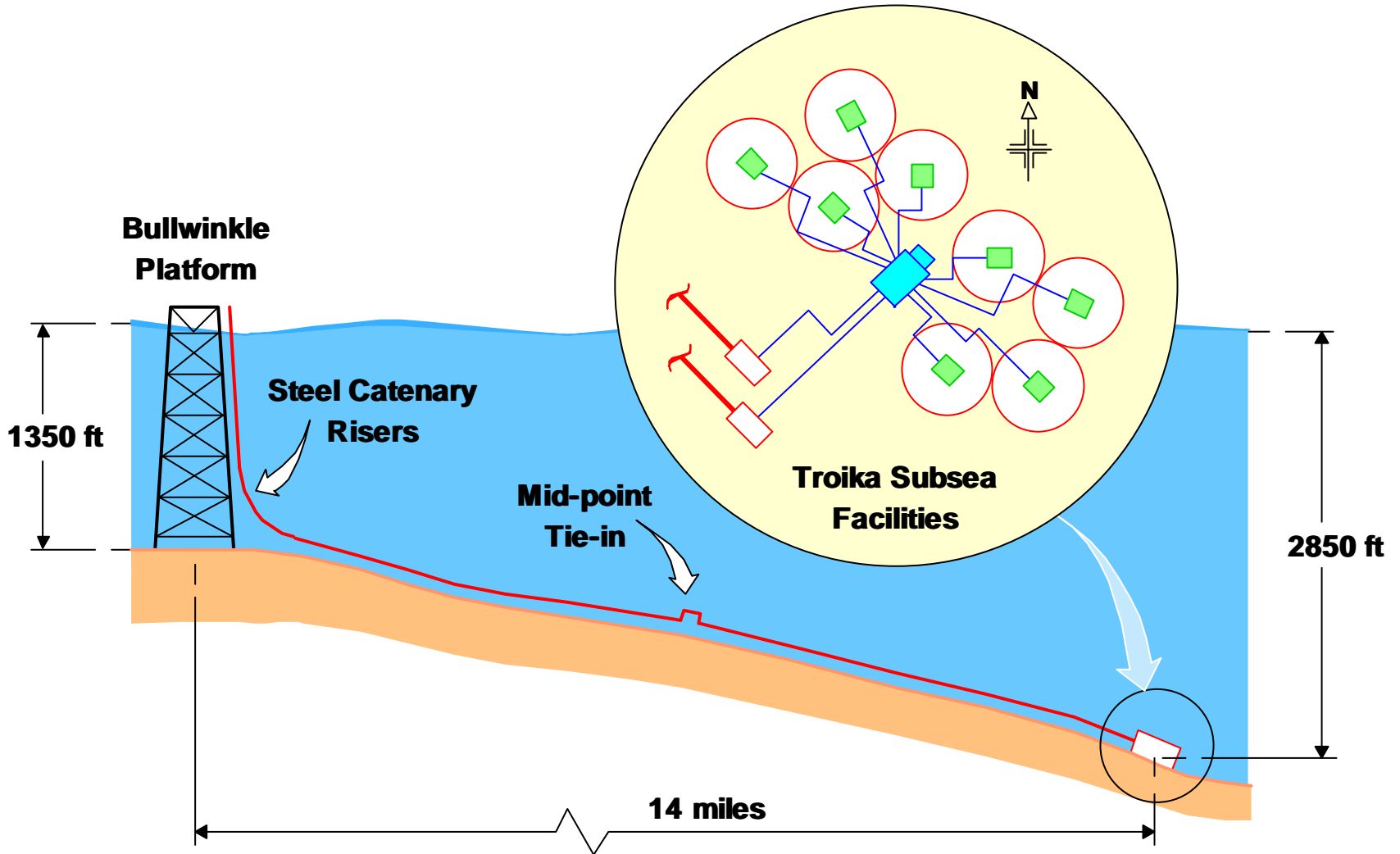
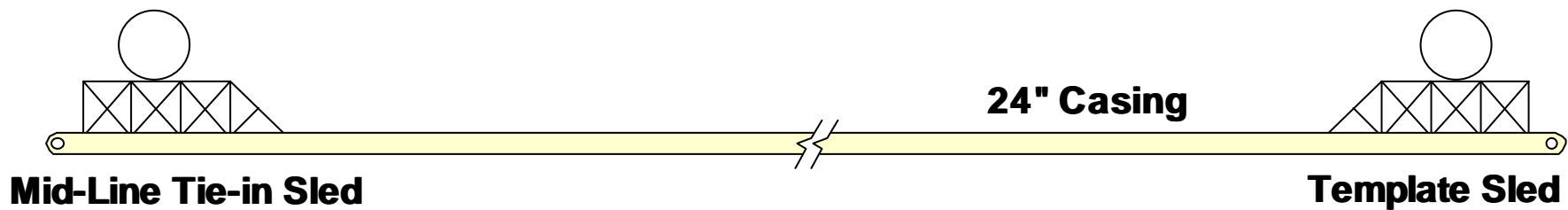
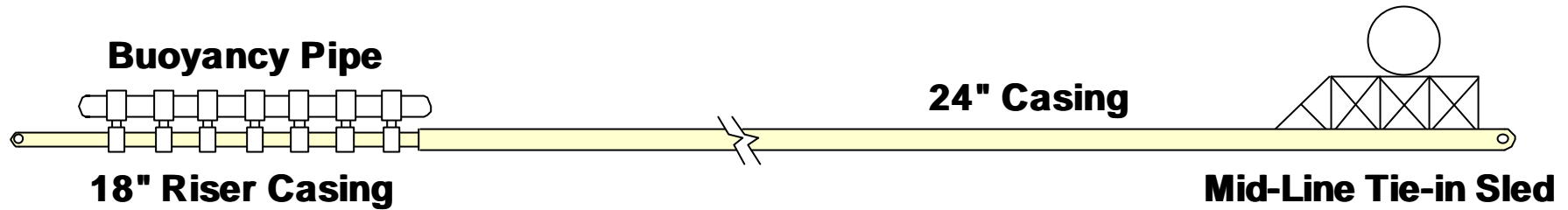


# Troika Bottom Tow Pipeline

## Troika Pipelines

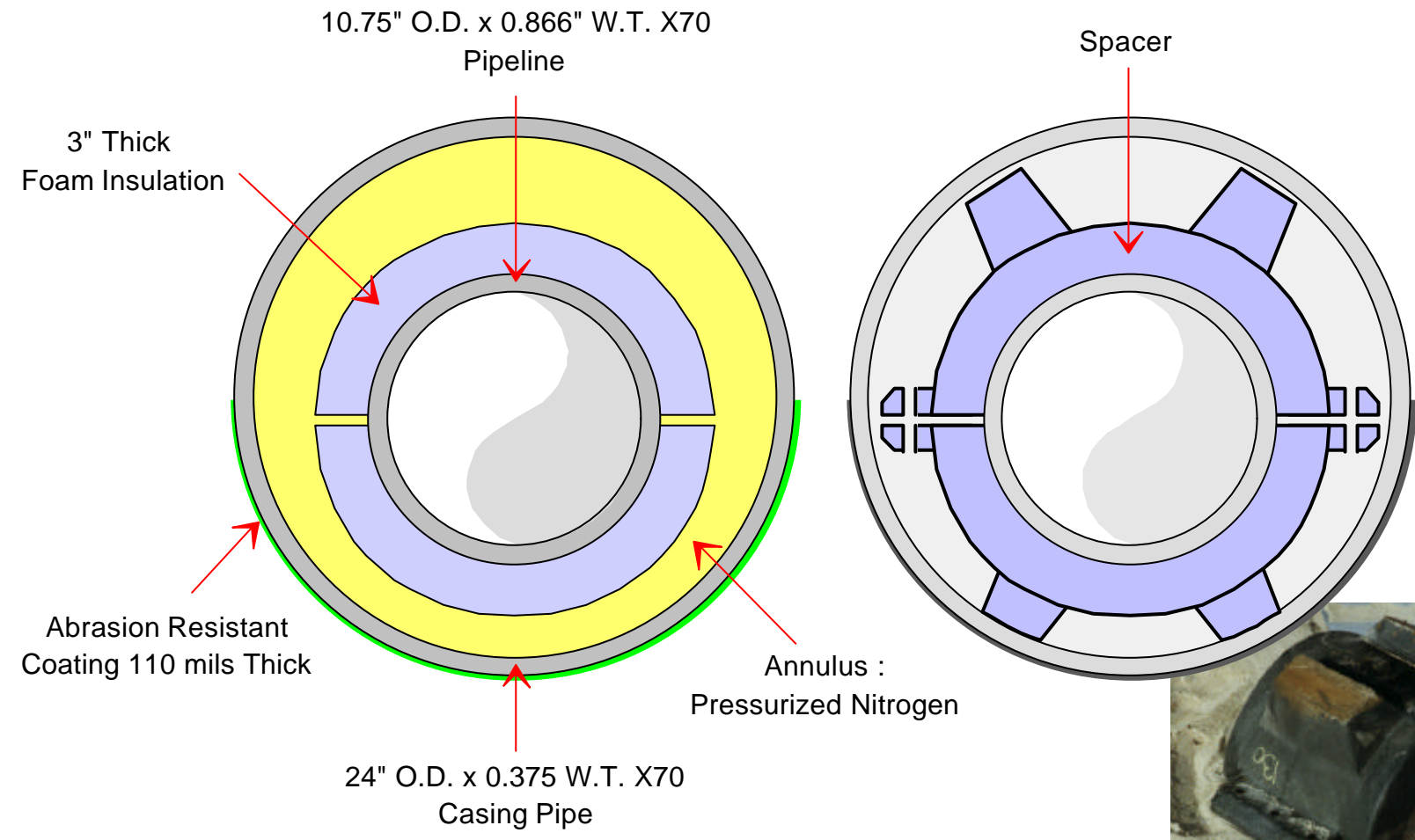


# Troika Bottom Tow Pipeline Flowline



# Troika Bottom Tow Pipeline

## Single Pipeline Section



Troika Bottom Tow Pipeline

# Matagorda Fabrication Site

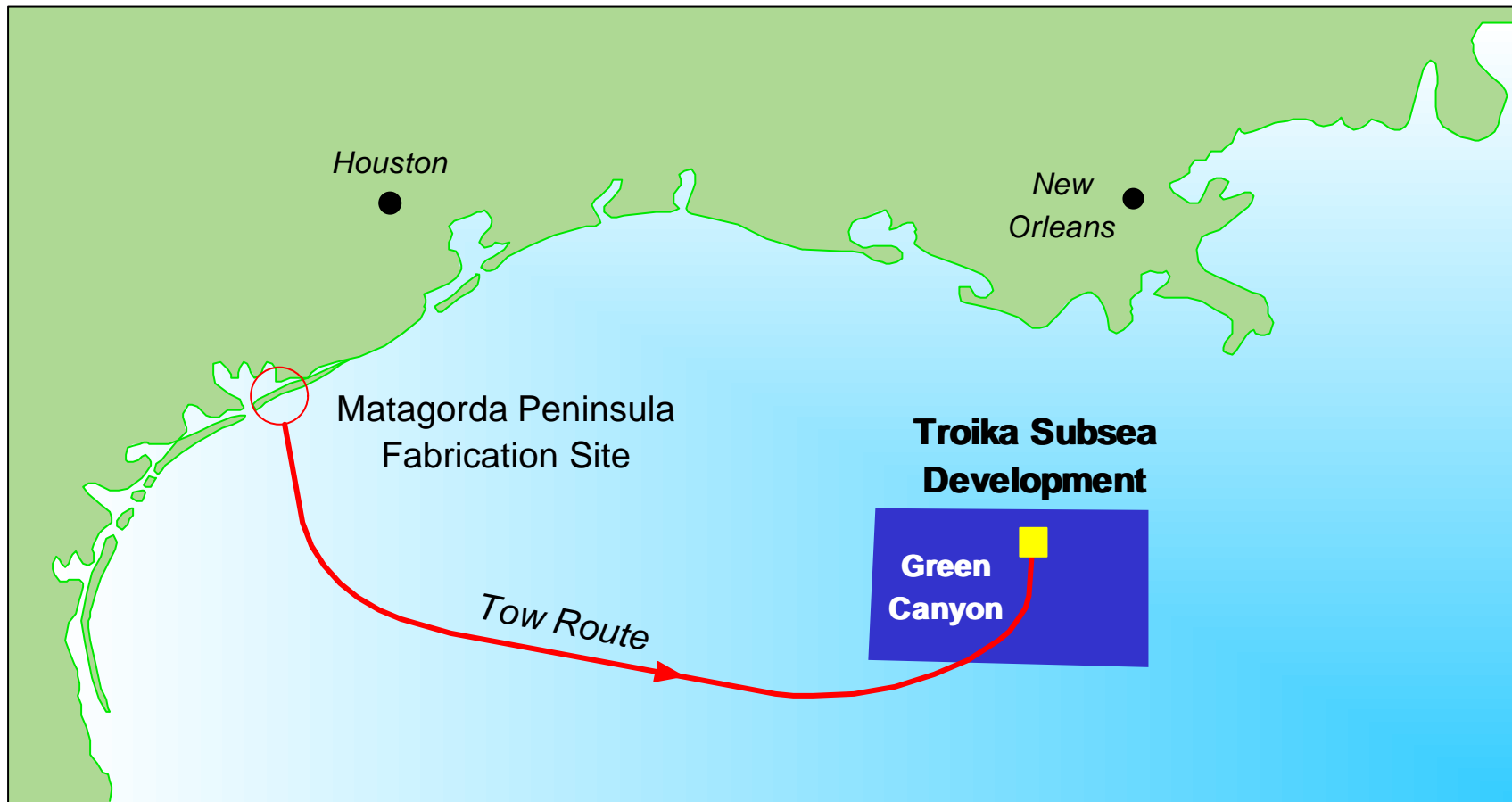


# Troika Bottom Tow Pipeline

## Troika Pipelines

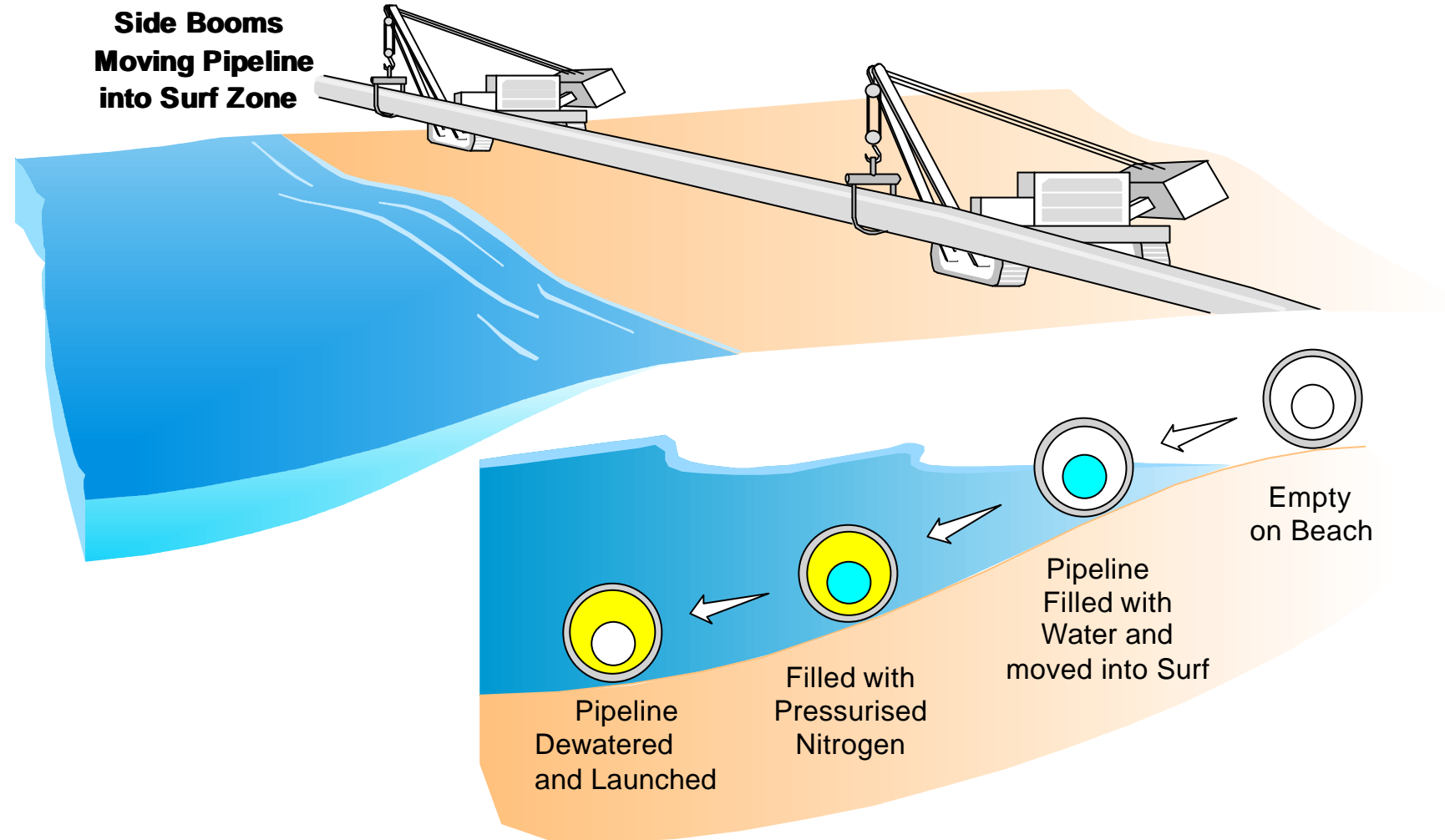


### Tow Route



# Troika Bottom Tow Pipeline

## Moving Pipeline into Surf Zone





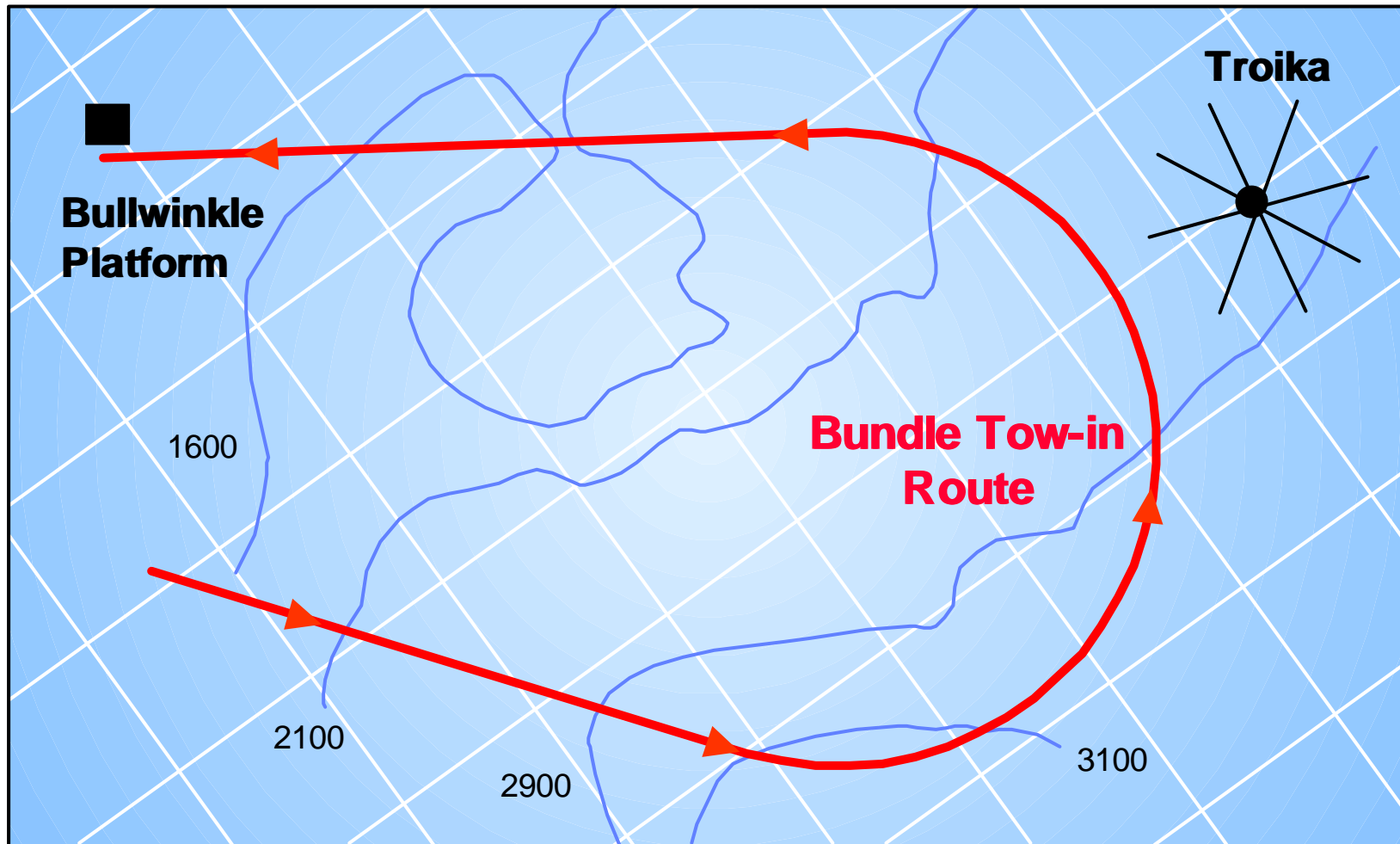




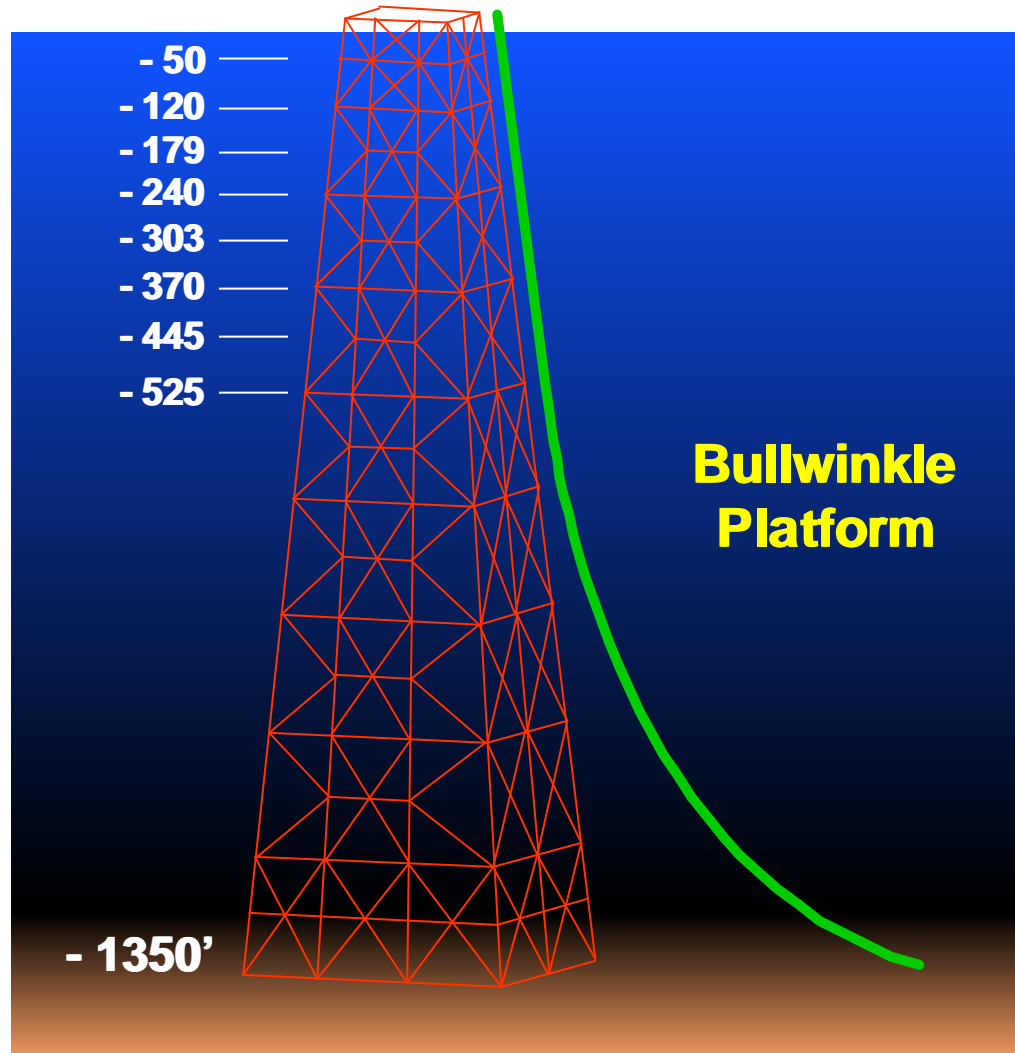




# Bundle Tow

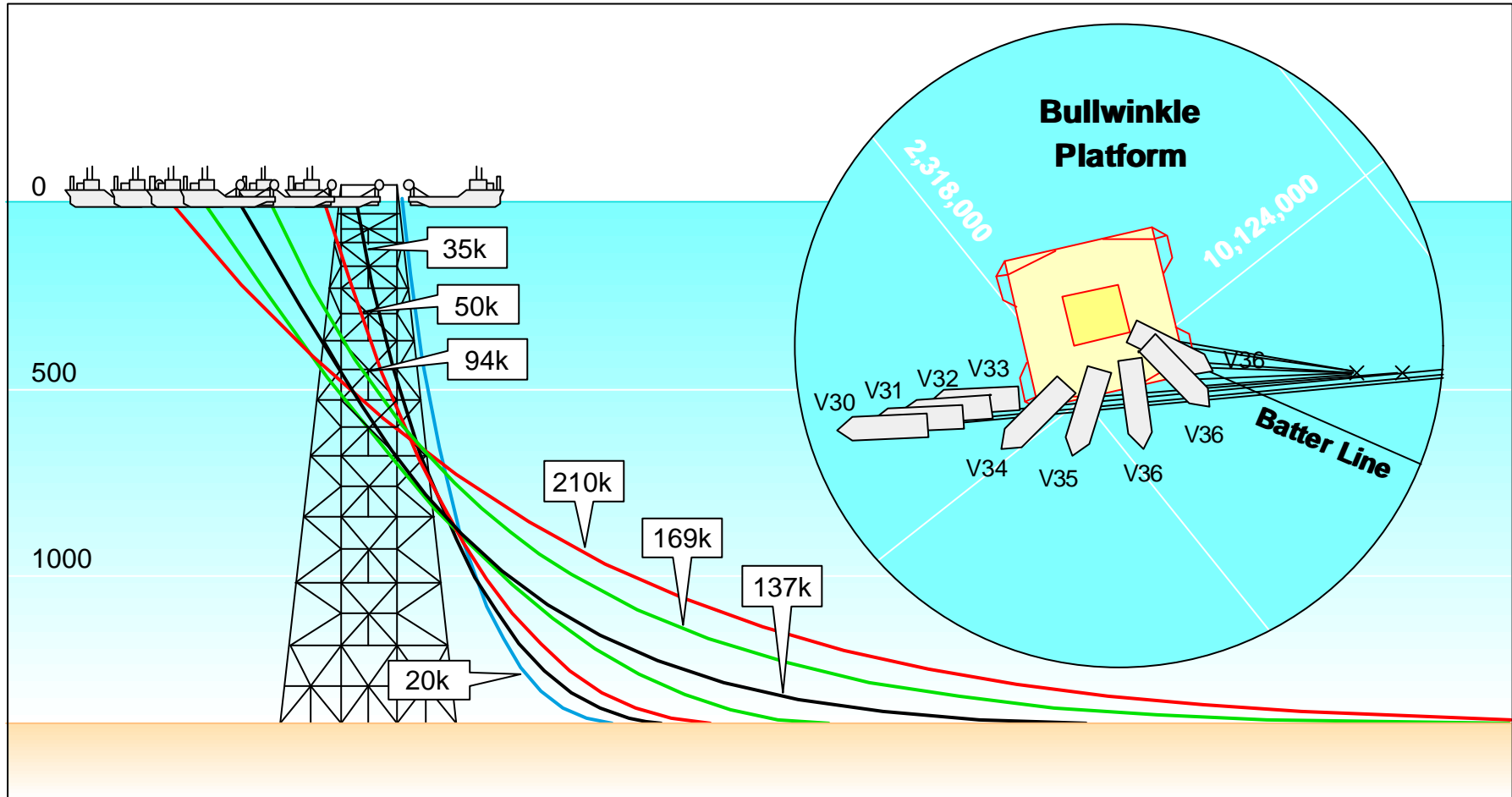


# Troika Bottom Tow Pipeline Riser Installation





# Troika Riser Installation



Troika Bottom Tow Pipeline

**BPAmoco**

# Characteristics of Bottom Tow



- Onshore fabrication
- Installation of multiple lines in single operation
- Buoyancy pipe
- Pressurised annulus
- Bottom tow into field using tugs
- Alternative connection methods