In March 2017, Noble Energy awarded Schlumberger a contract for the delivery of the MEG reclamation unit (MRU) for the Leviathan project in the eastern Mediterranean Sea.

Schlumberger was providing one of its PUREMEG monoethylene glycol (MEG) reclamation and regeneration systems, which are widely used at wellheads and along pipelines as a hydrate suppressor to prevent hydrate formation at pipeline conditions. The four-section (pretreatment, MEG reclamation, monovalent salt disposal, and MEG regeneration) MRU system would be used to recover and purify the MEG used to protect the flowlines that bring the hydrocarbon gas mixture with associated condensates and produced water to the topsides. This system “is designed to process up to 5,310 bbl/d of rich MEG, producing a lean MEG stream of 90 wt%,” said Sergio Peirano, manager of project management, OneSurface.

“OneSurface was responsible for the full design and delivery scope of the Leviathan MRU,” said David Knight, MEG domain expert, OneSurface. “This included all elements of the process, structure, piping, equipment and instrumentation design, management of fabrication, testing, and full supply responsibility for the complete MRU module.”

The 2,200-t Leviathan MRU is the largest and heaviest single module delivered by Schlumberger to date. The full design scope for the module was completed in-house by Schlumberger engineering teams, exceeding 100,000 engineering hours. Additionally, the project exceeded 1 million fabrication man-hours without any lost time injuries.

The loadout of the PUREMEG system module for the Leviathan MRU took place on September 2, and it sailed on September 7 from Singapore.