

Greenfield with topside upgrade

Client:

Noble Energy

Location:

Gunflint, Gulf of Mexico

Equipment:

Subsea control system

Water depth

6,560 ft

Project Background

The project was for a new field development that ties back to an existing platform in the Gulf of Mexico. Proserv's ability to provide simple, reliable service-based solutions, new technology for faster interfacing, and competitive pricing provided the customer with a much-needed alternative from their standard suppliers.

Solution

The project scope for a subsea controls system required the international collaboration of three Proserv facilities in the UK, Norway and USA for the engineering and manufacturing of the following Proserv products: Proserv subsea electronics module (SEM), subsea control module (SCM), open communications hub (OCH), master control station (MCS), topside umbilical termination assembly (TUTA) and hydraulic power unit (HPU).

Scope

The project called for six of the Proserv A2G next generation subsea electronics modules, allowing line speeds of up to 1.3 mb or 100 mb with fibre-optics. Three Proserv SCMs and three OCHs were included in the work scope to allow for future expansion, additional subsea power management and fibre-optic communications.

Topside, the Proserv MCS and remote operator station ensures that the operators have full control and monitoring of the field. The subsea team also engineered and manufactured a topside double stacked HPU for space restrictions.

Conclusion

The project showcases how Proserv delivers value to our customers through the combination of services, equipment, personnel and expertise. Proserv's flexible solutions extend the life of subsea fields in the most economical way possible; guaranteeing continued support for the life of the installed system.

Benefits

- The Proserv A2G SEM is the fastest multi-drop powerline communications system in the market, offering up to 10x better performance than our closest competitor
- Our deepwater qualified SCM is designed never to go obsolete, with the longest offered industry warranty
- Proserv's SCMs and OCHs feature the latest, fastest copper communications saving on the requirement for fibre-optic connectors, thereby reducing costs and optimising performance over the 37 km step-out in the Gunflint field
- The MCS provides comprehensive real-time diagnostics for subsea equipment in the field for complete peace of mind

