Project Synopsis

End Client: PTTEP International Limited
Project: Zawtika Development Project Phase 1A
Location: ZPQ Platform, Gulf of Moattama
Myanmar, 300km south of Yangon and 290km west of Tavoy
Water depth: 135m
Commencement: September 2012
Completion: January 2014
Offshore Window: March – June 2013 (Hyperbaric Welding)

Two (2) joints of Hyperbaric welding on 28” pipeline spool connecting the riser on ZPQ platform and the 28” export pipeline in water depths of 135m – believed to be the deepest hyperbaric welding.

Dry welding was utilized using welding habitat and the diver welders hired were qualified by the National Hyperbaric Centre in Aberdeen.
Welding Details

- 28” x 26.97mm wall pipe
- API 5L X65, PSL 2 (Sour Service)
- External Clamp
- 5G
- Method of Inspection: Visual → UT → RT (External)
- Welder pre-qualification and extensive welder training at National Hyperbaric Centre Aberdeen
Contracting Tiers

Welding (HWPQT, HWQT)
- HWPQT at National Hyperbaric Centre Aberdeen
- Diver welders hired by Kreuz Subsea

NDT Offshore
- By SXSubsea

Field Joint Coating
- By Kreuz Subsea
- Serviwrap R30

Offshore Key Fleet
- DSV “Seamec Princess”
  - Preparations, Spool lowering
- DSV “Mermaid Commander”
  - Habitat, hyperbaric welding

Vessels under Kreuz charter
Execution Plan

1. Spool Metrology
2. Lower the spool to seabed
3. Position and secure the spool with two (2) pipe handling frames (PHF)
4. Excavate area using habitat template for habitat placement
5. Align the spool to the riser using PHF
6. Deploy and install habitat
7. Perform dry welding
8. NDT and Corrosion coating
9. Recover habitat
10. Move to pipeline end weld location
11. Repeat the operations 3 to 9
Photographs

National Hyperbaric Centre Aberdeen

Habitat on Mermaid Commander deck

Seamec Princess at the Platform

Habitat lowered on water
Photographs…

Inside the Habitat
Crew Briefing
Visual on fitup
Completed weld
Corrosion Coating
Final Weld
Kreuz Subsea is an integrated turnkey solutions provider in IRM and Subsea Construction Services – Unique and differentiating model