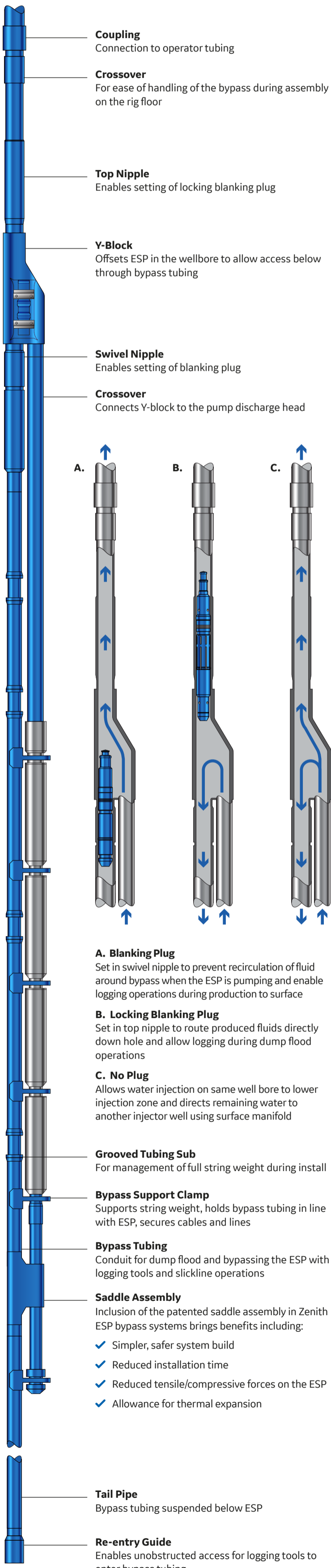





# Power injection with Zenith™ ESP bypass boosts field development & production

ESP power injection using Zenith bypass systems enables efficient and cost-effective water injection operations, enhancing recovery from depleted reservoirs where conventional water flood proved unsuitable.

## CHALLENGE

Conventional surface water injection flooding proved unviable as a result of agricultural area overlays.

Existing natural dump floods not meeting required injection targets.



## SOLUTION

ESP power injection using Zenith bypass systems.

ESP on single wellbore provides water supply from upper water zone and injection into lower oil zone.



## BENEFITS

- ✓ Minimizes environmental impact by reducing footprint of single-well production/injection operations.
- ✓ Allows economic development of field by saving drilling/completion of additional wellbore.
- ✓ Eliminates cost of conventional water injection equipment — tanks, flow line, surface facilities and maintenance.
- ✓ Intervention/logging can be simply carried out during both production and injection processes.
- ✓ Provides easy wellbore access for ESP troubleshooting.

“ESP power injection with Zenith bypass systems has proved highly effective; positively impacting offset oil production, demonstrating stable performance and delivering cost savings for the operator.”

**Ahmed El-Shafey**  
Sales & Operations Manager  
GE Oil & Gas