woodside

EXPRO
WELL FLOW MANAGEMENT™

/ Expro Excellence Meters

Sonar surveillance for large diameter trunk lines sucessfully support Woodside Petroleum's challenge to increase production

Objectives

Woodside Petroleum operates the North West Shelf Project facilities, which constitute Australia's largest oil and gas resource development, accounting for more than 40% of Australia's oil and gas production.

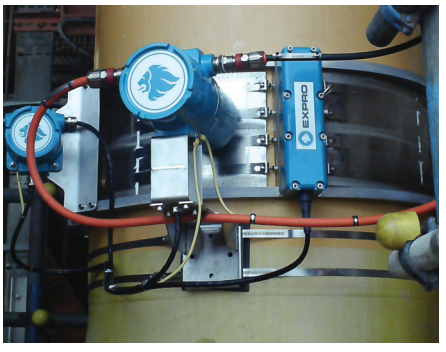
The North West Shelf Project has two trunk lines connecting four offshore platforms to the onshore processing facility. Woodside wanted to increase production from the field but were restricted by the flow capacity in one of the trunk lines.

Expro Excellence

- ActiveSONAR™ flow meter applied to trunk line 30" in diameter and 1" thick, precluding the use of conventional clamp on meters
- Mobilised quickly, with no process shutdown
- ActiveSONAR™ meter measured the full range of flows, up to approximately one billion standard cubic feet per day

Value to client

- Installation of an in-line flow meter would be cost prohibitive and would require lengthy shut down
- Expro were able to work with Woodside Petroleum while they implemented a mode of operation that would allow flow balancing across the two trunk lines
- This mode of operations required an accurate flow rate measurement on the trunk lines to ensure integrity limits were not breached in the new flow mode
- Woodside Petroleum reported results within 5% accuracy of production measurement



Key deliverables

- Measured full range of flows, up to one billion standard cubic feet of gas per day
- Results within 5% accuracy of production measurement
- Total cost saving in excess of $1million (USD) and no shutdown required
- Convenient and cost effective
- Compact and lightweight equipment with rapid deployment

ActiveSONAR™ uses pulsed-array sensors to track the speed of coherent flow structures. The technology offers enhanced performance for surveillance applications where low flow rates and thick walled pipes present measurement challenges for traditional clamp on meters

Contact

For further information, please visit exprometers.com/contact or call **+1 (203) 303-5686.**