CALTEC
Production Solutions

Production Boosting Solution

– Using compressors as a high-pressure source

Project Background

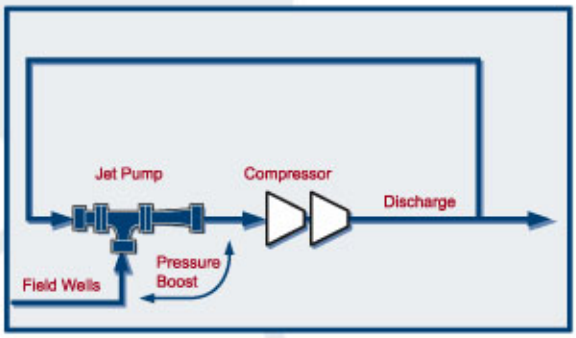
Jet pumps can be used **with** compressors to boost production from low pressure (LP) wells, as used at the BP Inde Platform. At Inde the production from two satellite platforms had been restricted by the compressor suction pressures generated.

The Caltec solution was designed to:

- Produce a lower back-pressure for the satellite platforms, thus increasing production.
- De-bottleneck BP's main compression station, allowing it to run at a higher suction pressure, and therefore achieve a higher throughput capacity, so allowing additional new fields to be brought online.

How it works

- Borrows some high pressure (HP) gas from the compressor output to act as motive for the jet pump.
- HP gas creates a low pressure zone in the jet pump drawing in more gas and reducing back pressure on LP wells.
- Works **with** the compressor to increase production.



Results

- **Increased LP production by 25%**
- **128 MMscf / day additional capacity**
- **Additional 18MMscf/d production**
- **De-bottlenecks the compressor**

Ian Andrews, Senior Production Engineer (SNS), BP Amoco, states: "BP and its Co-Venturers are extremely pleased with the jet pump, which has achieved all its stated aims and continues to perform above expectations, thus further helping us to maintain and increase production from the North Sea wherever possible"