



# Six months early

## Haradh Gas Program, Saudi Arabia

25% below budget

Exceeded quality target

Only 31 months from preliminary engineering to full on-stream

\$140 million revenue gain due to early completion

The Haradh Gas Program comprises a new gas plant, an upstream gas gathering manifold and transmission line system, a downstream gas and condensate line network, residential housing for 1,000 men and a new high voltage (380 & 230kV) power supply with 200 kms of new transmission lines.

The Haradh gas plant site is about 300 kms southwest of Dhahran, Saudi Arabia.

**The gas plant is designed to process 1.8 billion standard cubic feet per day (scfd) of a combined raw feed of sweet and sour gas and to deliver 1.5 billion scfd of sales gas to the Saudi Aramco Master Gas System.**

### Foster Wheeler's involvement

Foster Wheeler produced the front-end engineering design (FEED) package, provided project management consultant (PMC) engineers in the contractors' engineering offices and a small team followed the project through to completion in Saudi Arabia.

Our planning expertise has been on hand throughout to assist Saudi Aramco in this major project achievement, and planning ahead by project management has been a key factor in the project's success.

### Record-breakers

The FEED started in November 1999, achieving a record-breaking time of seven months to issue of the bid packages, and eight and a half months for the complete package and estimate.

Schedule records have continued to be broken ever since, culminating in the first sweet train (Train 4) being mechanically completed in mid-April 2003, 28 months after EPC contract award and two and a half months ahead of contractual schedule dates.

Furthermore, Train 4 was on-stream at the end of April 2003, three months ahead of the contractual schedule. All four trains were on-stream by end June 2003, some six months ahead of the original schedule set at the beginning of the FEED.

### Quality & safety

Not only did the project set many schedule records, it achieved this with high quality, an excellent safety record and significantly under budget.

Our PMC team members have been delighted to be part of that success, and we look forward to further successful projects with Saudi Aramco in the future.