Gas Pipelines

Major Transmission Pipelines 2004

- Gas Pipeline
- Gas Pipeline under development

Moura Seamgas

Perth
Darwin
Adelaide
Sydney
Hobart
Brisbane
Melbourne

NT
Qld
WA
SA
NSW
Vic
Tas
SCHEMATIC DIAGRAM
IN-SEAM - LOW-ANGLE DEVIATED DRILL HOLES
FOR METHANE EXTRACTION AT MOURA

Surface

HIGHWALL

FINAL PIT

LOWWALL

A-SEAM

R-230m

B-SEAM

R-230m

BL-SEAM

R-230m

20m

30m

117m
Medium Radius Drilling

Wellhead Assembly, Pump Variable Speed Drive

2.5” Steel Pipe To Flare Pipe

6.5” Cased Production Well

3.5” Tubing String

Inclined hole

Cased To Within 50cm Of Seam

In-seam hole

Rat Hole

Production Dam

Progressive Cavity Pump
Lateral Drilling
Key Issues 2004

Availability of drilling contractors
  Keeping up with contract sales
Well design (Hillview area)
  ‘Boat design’ now standard
  Down dip, across cleat design
  Bigger, deeper sumps for fines management
Well completion
  Lateral and vertical flushing
  Slotted steel lateral lining
Results to date
  Less fines blocking and less work-overs
  Increased instantaneous production levels
Moura needs

- Capable of placement through faulted/soft ground
- Capable of work-over
- Commensurate with new legislation and future underground mining
- Fast to install and cost effective