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# AGL Camden Gas Project Surface to In-Seam Fact Sheet

## Surface to In-Seam drilling.

AGL's Camden gas operations provides a great example of how we can work with the local community. By understanding the geology in the area we know there are some places we can drill horizontally directly into the coal seam. This means we can reduce the number of wells and minimise surface disturbance.

## What is coal seam gas?

Coal seam gas occurs naturally in underground coal seams, between 200 and 1000 metres below the earth's surface. The gas is held in the 'fractures' or cleats of the underground seams by water and ground pressure, and is released by drilling into the seam and pumping the water out.

## Drilling for gas in Camden.

A variety of technologies are available for the drilling of wells within the Camden Gas Projects, ranging from vertical, directional and horizontal or Surface to In-Seam (SIS) drilling techniques.

In establishing the most appropriate drilling technique for each well surface location, geotechnical issues must firstly be considered, followed by a range of environmental issues and constraints.

The use of Surface to In-Seam (SIS) drilling technology not only minimises the surface disturbance and possible environmental disturbance, but avoids conflicts with existing and future land uses as the well can be located on the surface as to not affect activities on that land.

## Horizontal or Surface to In-Seam (SIS) Drilling.

The well is drilled vertically from the surface and gradually angles out to intersect parallel with the coal seam. Once the coal seam is intersected, the upper portion of the well bore is cased, cemented and a smaller hole is subsequently drilled through the casing and horizontally into the seam for approximately 2,500m. This technique allows a significant reduction in the number of surface locations along with the ability to access previously stranded gas reserves more than 2,500m away from the well surface location.



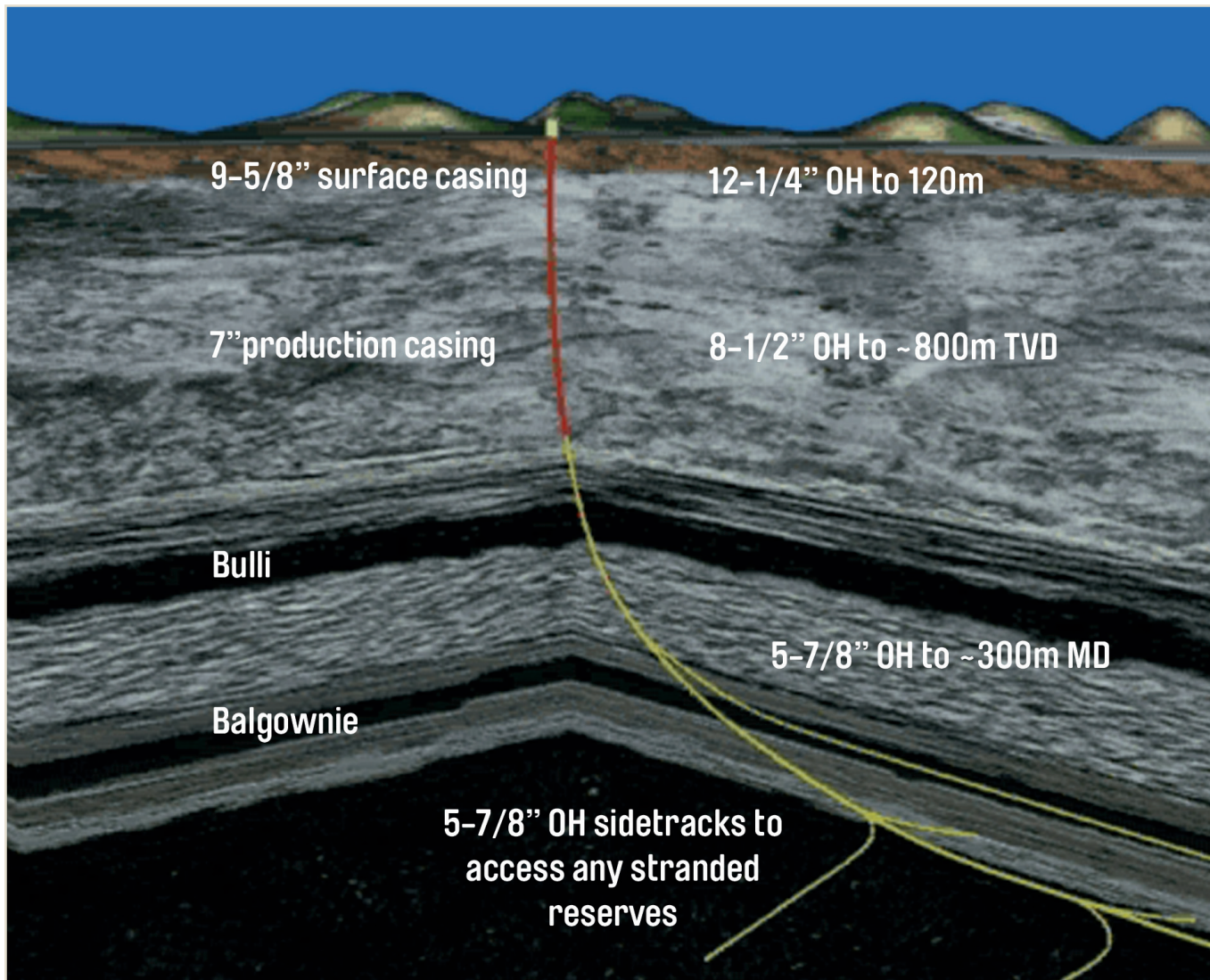
▲ Co-existence with livestock.

## About us

AGL has been operating in Australia for over 170 years and was one of its first listed companies.

AGL is Australia's leading renewable energy company and is Australia's largest private owner, operator and developer of renewable generation assets. AGL also operates retail, merchant energy and upstream gas businesses and has over three million customer accounts.

AGL is taking action towards creating a sustainable energy future for our investors, communities and customers.



▲ Surface to In-Seam SIS Drilling.

## Camden Gas Project.

AGL's Camden Gas Project currently consists of 130 gas wells, low-pressure underground gas gathering lines and the Rosalind Park Gas Plant. We employ approximately 70 full time employees and contractors in the Macarthur region and 45 % of our suppliers are locally based businesses.

The project has been producing gas for the Sydney region since 2001, currently supplying around 6% of the NSW gas market.

The Spring Farm and Menangle Park Project was approved by the Minister for Planning on 4 September 2008. These wells are expected to produce enough gas to supply more than 1.6 million average households if the gas was consumed in 1 year.

We have an ongoing communication program with the Macarthur community through our website ([www.agl.com.au/camdengasproject](http://www.agl.com.au/camdengasproject)) and our Community Consultative Committee (CCC), which includes representatives of Councils, environment groups and community members.

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For further information:

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