

Future of Coal Mining In the Illawarra

Brad Elvy Illawarra Coal 27th June 2012



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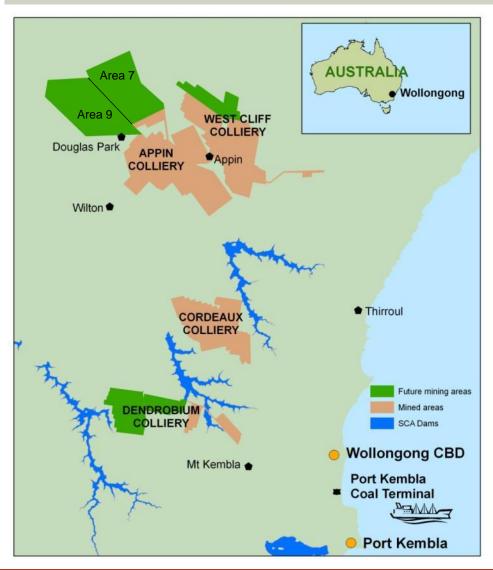
A coal region free of fatalities





Illawarra Coal



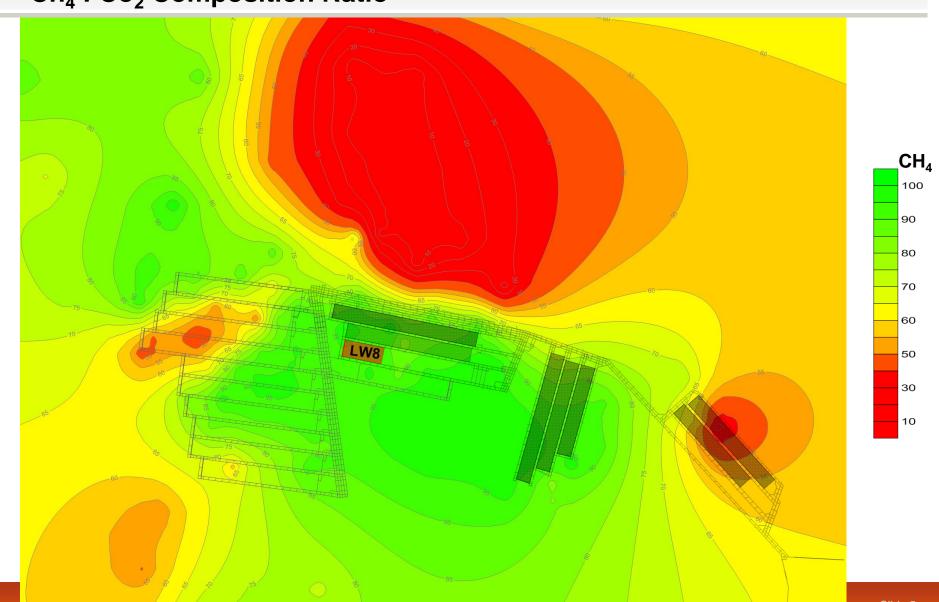


- Resources 1.2 billion tonnes
- Three mines
- Operate in two seams
- 300-620 metres deep
- High gas contents in the Bulli Seam
- Igneous intrusions
- Faults
- 7Mt clean metallurgical coal produced in FY11
- 10Mt ROM production for FY12

Dendrobium Mine

Ch₄: Co₂ Composition Ratio

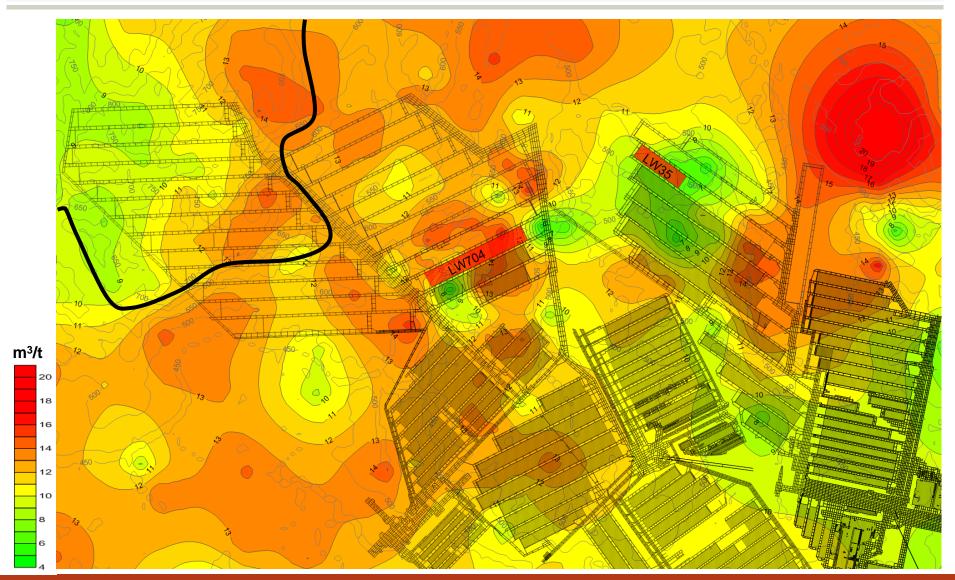




Appin and West Cliff Mines

bhpbilliton resourcing the future

Gas Content

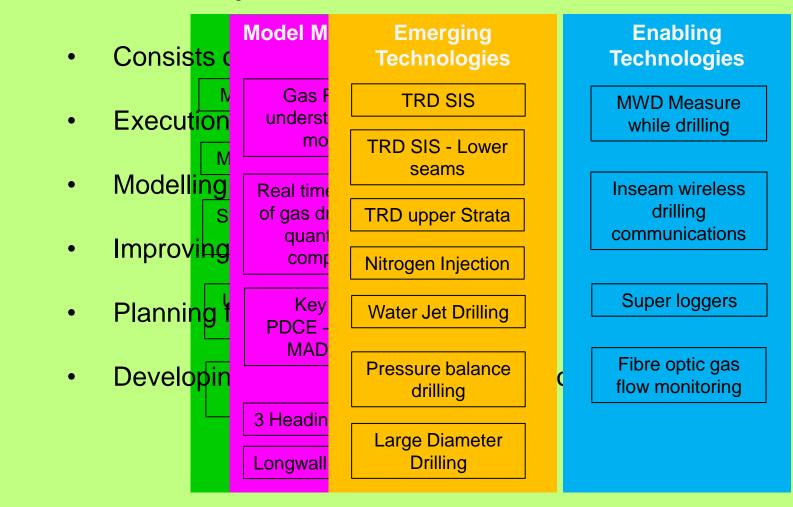


CAMGAP

A Ventilation and Gas Strategy Project



CAMGAP – Capture As Much Gas As Possible



CAMGAP

A Ventilation and Gas Strategy Project



DIRECT RELATIONSHIP WITH OUTBURST MANAGEMENT

In Execution

MRD SIS drainage

MRD Goaf drainage

Surface upper strata drainage

Underground upper strata drainage

Steered cross measure drainage

Model Measure Plan

Gas Reservoir understanding and modelling

Real time monitoring of gas drainage flow quantities and compositions

Key Metrics PDCE – HPGCE – MAD - GHGE

3 Heading Gateroads

Longwall panel widths

Emerging Technologies

TRD SIS

TRD SIS - Lower seams

TRD upper Strata

Nitrogen Injection

Water Jet Drilling

Pressure balance drilling

Large Diameter Drilling

Enabling Technologies

MWD Measure while drilling

Inseam wireless drilling communications

Super loggers

Fibre optic gas flow monitoring

Outburst Mining



- Remote cutting
- Remote shuttle car flighting of coal.
- Remote development
 - Completely automated development process.



