



# Gas Management at Moranbah North

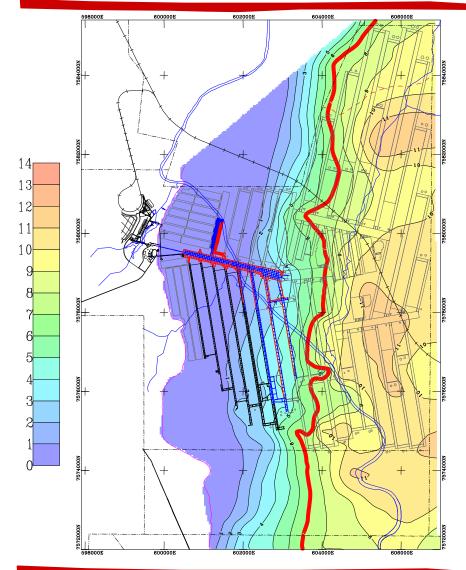
Presentation to ACARP
Gas & Outburst Workshop
16<sup>th</sup> Sept 2005

**Bruce Robertson** 



# GMI seam - Total Desorbable Gas Content (m3/t)





- Current development in 5-6 m3/t coal
- High permeability, 100mD
- OMP in place
  - □ DRI900 at 7.2m3/t
- Mining 100s 200s
- Preparing for transition to gassy mine operations:
  - □ Pre-drainage now
  - □ Goaf Drainage trials

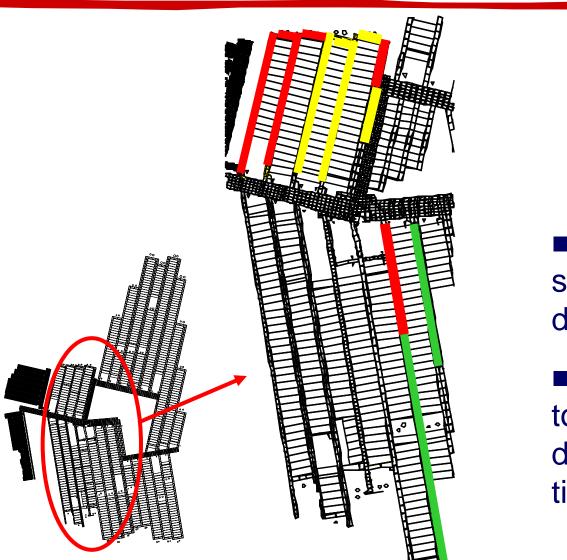
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## **Development 2006 - 2008**





Legend

2006

2007

2008

- Transition from south to north district
- Use this phase to establish drainage lead time

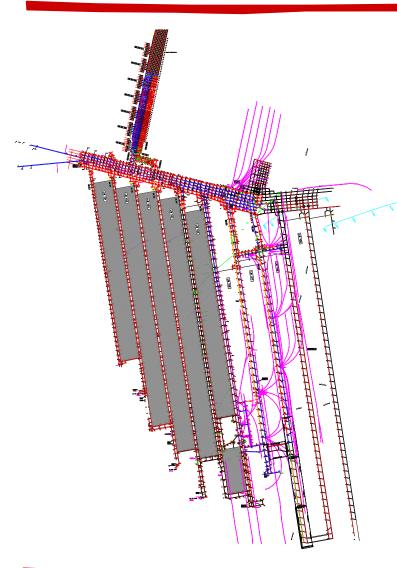
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## **Existing Drainage**



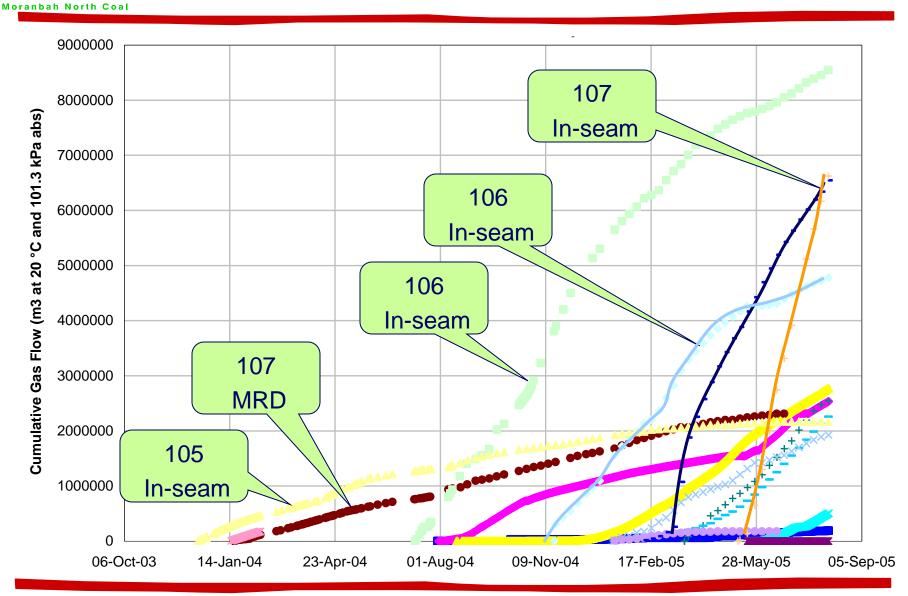


- Gas drainage req'd at 3.5–4 m<sup>3</sup>/t
- MRD variable success, improving
  - □ Collaborating with CH4
  - □ Require long lead times
- Inseam drilling from niches, vented by risers
  - □ ~ 22km in 2006, good conditions
  - ☐ High perm, much water, good gas make, recharge



# **Gas Drainage Flows History**

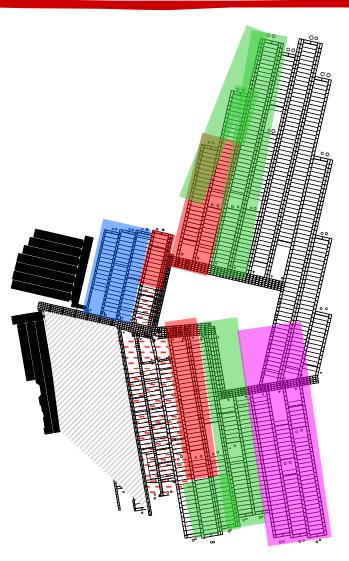




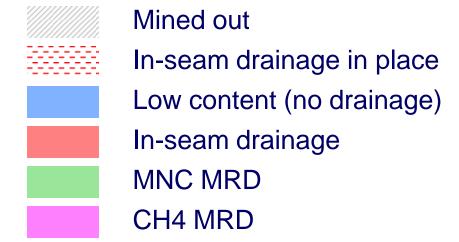


# **Drainage Strategy**





#### Key



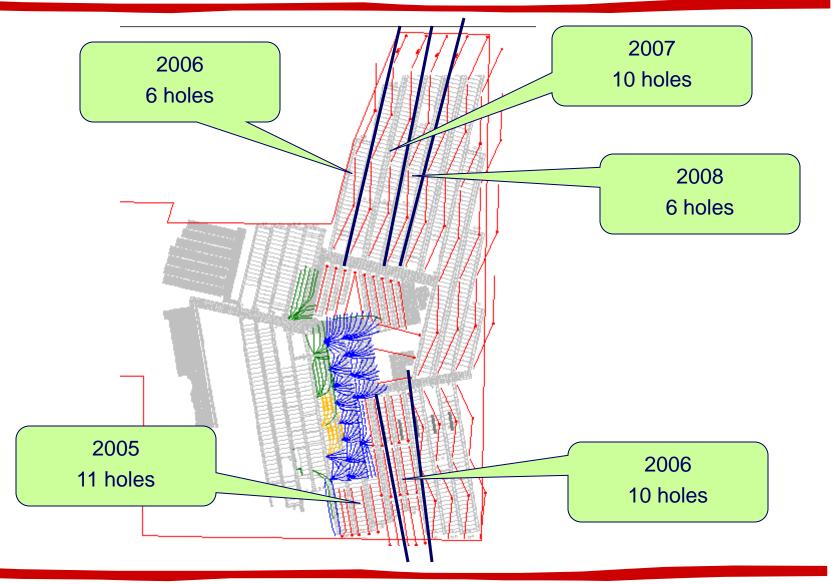
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# **MRD Program**







## **Gas Management**



#### Development

- Outburst Management Plan on threshold
- Pre-drainage, dewatering advantage
- High ventilation, long gate roads

#### Longwall

- High ventilation required
- 3 entry gate roads for pressure drop and tailgate gas management
- Goaf drainage will be required. trials pending
- Pre-drainage of upper/lower seams is an option (P, GL etc)

#### Gas Utilisation

- Flaring practised
- Pipeline off-take (CH4/Enertrade)
- Electricity generation regional opportunity
- Lots of gas cost recovery