What's happening at CENTRAL?

Ron Cassidy – Gas Drainage Engineer
LOCATION – CENTRAL COLLIERY
CENTRAL

- DEVELOPMENT CEASES JANUARY 2005 (Completion of 209)
- LONGWALL CEASES NOVEMBER 2005 (Completion of 209 longwall)
- APPROXIMATELY 3 MONTHS SALVAGE.
Outburst Management Plan Overview.

- Threshold Value = 7.5m$^3$/t
- Prove drained envelope of 10m in unstructured area.
- Prove drained envelope of 15m in structured area.
- Can only drive to within 15m of last complying core sample.
- Core locations determined by committee.
DRILLING AT CENTRAL

- DIRECTIONAL CROSS BLOCK
- DIRECTIONAL FLOOR HOLES IN INTERBURDEN
- SURFACE TO SEAM (compliance)
- SURFACE GOAF
208 RE-ENTRY

- PANEL FINISHED PRODUCTION IN OCTOBER 1999
- 208 TAIL GATE SEALED JUNE 2001 DUE TO FALL AT 23 C/T
- REQUIRED ACCESS MAY 2001 FOR DRILLING/DRAINAGE TO FIT MINE SCHEDULE

PROBLEMS
- VENTILATION (SURFACE BOREHOLE WITH BLOWER FAN)
- HEAT
- WATER
- SERVICES AVAILIBILITY
- ROOF & RIB STABILITY
- DENIED ACCESS OCTOBER 2004 TO ALLOW DYKE PREMINING TO COMMENCE.
DRILLING

LOGISTICS –
- ROADS AND WATER
- NO C/T’S
- COMMUNICATIONS

CONDITIONS
- HORIZONTAL SHEAR ZONE
- VERTICAL SHEAR ZONE
- COAL INSTABILITY
MORE DRILING PROBLEMS

- HOTES TO BE LINED WITH 50mm POLY FOR EFFECTIVE DRAINAGE
- ONCE HORIZONTAL SHEAR ZONE BREACHED POLY UNABLE TO BE INSTALLED
- UNABLE TO DRILL THROUGH VERTICAL SHEAR ZONE
- TRIED GOING OVER OR UNDER
- LOST HOLE CONTOL ON RE-ENTRY TO SEAM
DRILLING SOLUTIONS

- Greater attention to standpipe installation
- Tried to stay above or below horizontal shear zone
- Tool face performance reiterated to drillers
- Survey intervals reduced to 3m to maintain horizon control
- Check shots to ensure tool face in desired position
- Experimented with different bends and bit size
- Changed drillers
- Reduced operations to single shift
RESISTED USING DRILLING MUDS AS EFFECT ON DRAINAGE WAS NOT CLEAR

EVENTUALLY USED DRILLING MUDS WITH CHLORINE TO DILUTE ON COMPLETION
• DRILL/DRAINED FROM 11C/T TO 14 C/T209
• ADDITIONAL CROSS BLOCK HOLES DRILLED
FLOOR HOLES

- Drilled in interburden to allow conduit for gas
- Commercial issues from drilling contractor
- Drilled shorter holes from tailgate
- Abutment pressure from adjacent goaf demolished standpipes
- Drilled from maingate.
DEMOLISHED STANDPIPE