Oil, Gas and Coalbed Methane Wells Near Coal Mines

Oil and Gas Well Hazards

- Inundation
 - Gas
 - Oil – Water
- Ignition source
 - Mine into casing
 - Drill into active mine
- Underground piping – Leaks

Inches From Disaster



Jurisdictional Problem

- Oil and gas wells are regulated by states
- MSHA only has jurisdiction over mines
 - Only when a coal mine is near an oil or gas well is MSHA able to take enforcement actions
 - Most oil and gas drillers and coal mines have been cooperative in dealing with this potential issue

Oil and Gas Wells

300 ft. diameter barrier
Petition for modification

BuMines research 1970's
Redrill, replug, prior to mining intersection

Similar to many state regulations

Coalbed Methane (CBM)

- Methane produced from coal seams and surrounding strata
- CBM production reduces methane emissions during mining
- Several types of CBM wells
- Abandonment issues
 - Plugging
 - Location





CBM Benefits

- In-mine methane emissions reduced
 - 40 to 90% of in-seam methane removed
 - Higher production rates
 - Reduced loads on bleeders
 - Reduced incidence of face ignitions
- Supply of commercial gas
- Greenhouse gas emissions reduced

PIB 05-10 Coalbed Methane Wells (May 10, 2005)

- CBM wells are functionally equivalent to methane degas holes
- MSHA will regulate CBM wells near active mines under ventilation plan and map requirements for degasification holes
- District manager approval is necessary before mining near or through CBM wells or installing a methane drainage system in an active mine

Adverse Wells

- Many properties have severed estates
 - Surface
 - Coal
 - By Seam
 - Oil & Gas
 - CBM
- Oil and gas wells have been drilled into active mines without notifying mine
 - Drillers may not know about mines and hazards

Mining Into Pressurized Holes