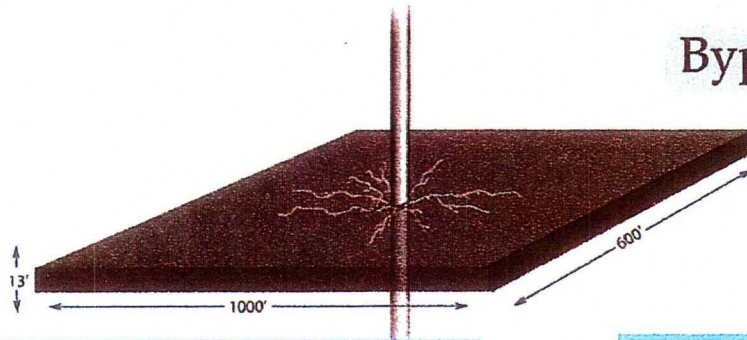


Estimates of Bypassed Coal

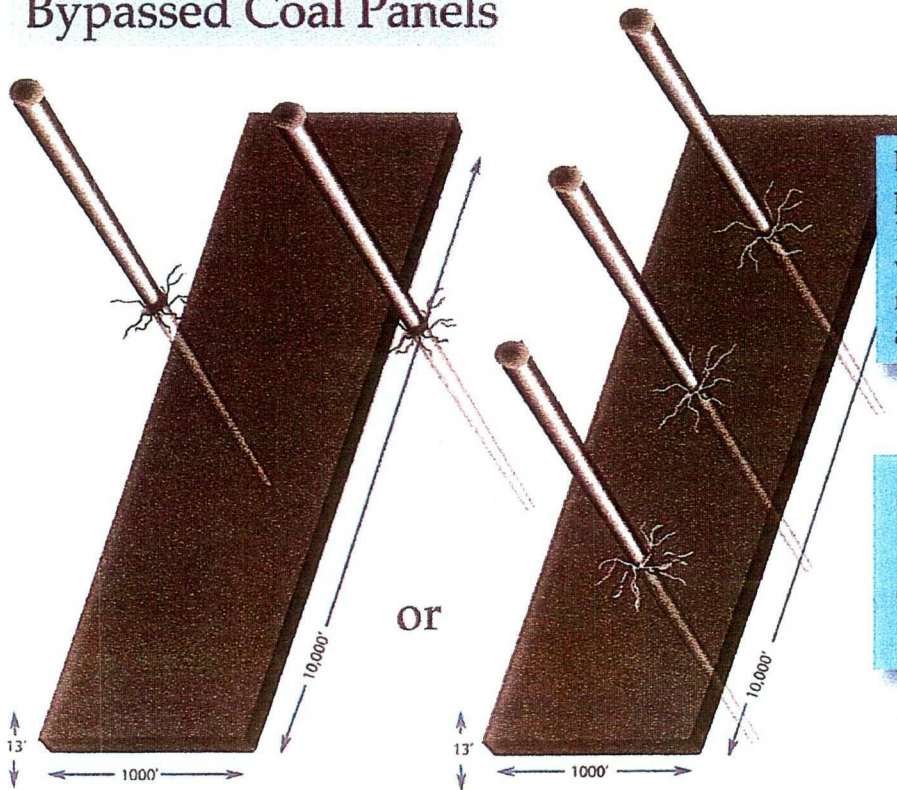
Bypassed Wellbore



Bypassing a block of coal that is 600' long x 1000' wide x 13' thick (surrounding a wellbore) results in a loss of approximately:

333,000 Tons of bypassed coal
plus
\$800,000 in lost royalty
plus
approximately 30 days, at substantial cost, to move the long wall apparatus

Bypassed Coal Panels



Bypassing an entire panel of coal that is 10,000' long x 1000' wide x 13' thick results in a loss of approximately:

5.5 million Tons of bypassed coal
plus
over \$13 million in lost royalty

Wells in gate roads

Wells in coal panels